

**INTER AMERICAN
UNIVERSITY
OF PUERTO RICO**

Graduate Catalog

2011-2013

Volume XXV August, 2011 Number I

Published by Inter American University of Puerto Rico, PO Box 363255, San Juan, Puerto Rico 00936-3255.

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www.msache.org

A Publication of the Vice Presidency for Academic and Student Affairs
and Systemic Planning

August 2011

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LAURA RÍOS RODRÍGUEZ, M.A., Director of the Department of Humanistic Studies
EVELYN CROUCH RUIZ, Ph.D., Director of the Department of Health Sciences

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PAULA SAGARDÍA OLIVERAS, Ed.D., Dean of Studies
LYDIA E. SANTIAGO ROSADO, M.B.A., Dean of Administrative Affairs
HILDA VELÁZQUEZ DIAZ, M.A., Dean of Student Affairs
SONIA SIERRA TORRES, M.B.A., Assistant Dean
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BETZAIDA COLÓN DÍAZ, M.A., Director of Upward Bound Program
HILDA L. ORTIZ BARBOSA, M.A., Director of Planning, Evaluation y External Resources
JOSÉ JAVIER COLÓN BARBOSA, M.B.A., Director of Promotion and Recruitment
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YOLANDA RAMOS ALVARADO, M.A., Director of the Continuing Education Program

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ABIGAÍL RIVERA RIVERA, B.A., Registrar
ADA CARABALLO CARMONA, B.A., Director of Admissions
MARILYN MARTÍNEZ ALICEA, B.B.A., Financial Aid Director
PORFIRIO CRUZ CHONG, B.A., Bursar

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IRMA L. MORALES, M.A., Director of the Department of Sciences and Technology
LOURDES PÉREZ DEL VALLE, M.A., Director of the Department of Humanities
PORFIRIO MONTES OLMEDA, Ed.D., Director of the Department of Education and Social Sciences

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ROSA J. MARTÍNEZ RAMOS, Psy.D., Dean of Students

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CARMEN G. RIVERA DE JESÚS, J.D., Director of the Services Program for Adult Students
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MINERVA MULERO LÓPEZ, Ed.D, Director of the Department of Health Sciences
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GLENDA DÍAZ, M.A., Financial Aid Director
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ARELIS CARDONA, M. Div., Director of the University Chaplaincy Office
DARLIN J. TORRES GONZÁLEZ, M.B.A., Director of the Office of Human Resources
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MARTA ROSAS DE CANCIO. M.S., Director of the Department of Computer Science and Mathematics
IDA MEJÍAS, Ph.D., MT(ASCP), Director of Medical Technology

SCHOOL OF NURSING

AUREA AYALA, D.N.Sc., Director

DIVISION OF ECONOMIC AND ADMINISTRATIVE SCIENCES

FREDERIK VEGA, LL.M., Dean

SCHOOL OF ECONOMICS

MYRNA M. REYES, M.B.A., Director

SCHOOL OF MANAGEMENT

MILDRED SOTO, M.A., Director

DIVISION OF HUMANISTIC STUDIES

OLGA SÁNCHEZ DE VILLAMIL, Ph.D., Dean

DYALMA GONZÁLEZ, M.A., Director of the Liberal Arts and Social Sciences Department

PEDRO GONZÁLEZ, Ph.D., Director of the History Department

MIGUEL CUBANO MERCADO, Ed.D., Director of the Department of Popular Music

LUIS MAYO, Ph.D., Director of the School of Languages

SCHOOL DE THEOLOGY

ÁNGEL VÉLEZ, Ed.D., Ph.D., Director

DIVISION OF EDUCATION AND BEHAVIORAL PROFESSIONS

CARMEN COLLAZO, Dean

SCHOOL OF EDUCATION

MARÍA DELIA RUBERO, Ph.D., Director

SCHOOL OF CRIMINAL JUSTICE

LUIS A ACEVEDO RODRÍGUEZ, J.D., Director

SCHOOL OF PSYCHOLOGY

JAIME SANTIAGO, Ph.D., Director

SCHOOL OF SOCIAL WORK

ELIZABETH MIRANDA, Ph.D., Director

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JACQUELINE ÁLVAREZ, Ph.D., Dean of Studies

VÍCTOR FELIBERTY, B.S.I.E., Dean of Administration

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OMAYRA CARABALLO, Ed.D., Associate Dean of Studies II

DIOSDADA COLÓN, M.A., Assistant Dean of Administration

DILIA RODRÍGUEZ, M.Ed., Assistant Dean of Development and Student Welfare

MARIA M MUÑOZ, M.B.A. Director of Continuing Education Program

IVONNE COLLAZO, M.B.A. Director of Human Resources

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MARÍA M. SILVESTRINI, M.L.S., Director of the Information Access Center

ROLANDO J. MÉNDEZ, B.B.A., Public Relations Officer

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FRANCO L. DÍAZ, M.B.A., Director of Admissions
MARÍA DEL C. PÉREZ, M.A. Registrar
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DEBRA M. MARTÍNEZ, B.S., Financial Aid Director

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LOURDES DÍAZ, M.S., Academic Director of the Department of Science and Technology
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NAHIR E. SOTO, O.D., Academic Coordinator of Health Sciences
KATHERINE RIVERA, D.P.T., Academic Coordinator of Health Sciences
BENJAMÍN LÓPEZ, Ph. D., Academic Coordinator of Health Sciences
LILLIAM LABOY, D.B.A., Academic Director of the Department of Graduate Studies
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LILLIAM LABOY, D.B.A., Academic Director of Graduate Studies
RAFAEL SANTIAGO, M.B.A., Assistant Dean of Academic Services Management

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PEDRO J. JAVIER, Ph.D., Director of the Department of Mathematics and Applied Sciences

ILEANA ORTIZ M.S.N., Director of the Department of Health Sciences

ZAYRA GUASP, Ph.D., Director of the Department of Social Sciences and Liberal Arts

MARTA VIADA, Ph.D., Director of the Department of Languages and Literature

SAMUEL ROSADO NAZARIO, M.S., Director of the Department of Fine Arts

MILSA MORALES, Ph.D., Director of the Department of Entrepreneurial and Management Sciences

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Directory

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Tel. (787) 250-1912
www.metro.inter.edu

Inter American University Trimester Program in English

Highway 1, Km. 16.3
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Inter American University
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Bayamón, Puerto Rico 00957
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General Information

History of the University

Inter American University of Puerto Rico is a private institution with a Christian heritage and an ecumenical tradition. It is a non-profit organization that provides college instruction to youth of both sexes. It was originally founded in 1912 as the Polytechnic Institute of Puerto Rico by the Reverend J. William Harris and offered elementary and secondary education on the land occupied today by the San Germán Campus. The first college level courses were started in 1921 and in 1927, the first group of students graduated with Bachelors' degrees. In 1944, the Institution was accredited by the Middle States Association of Colleges and Schools. It was the first four-year liberal arts college to be so accredited outside the continental limits of the United States. This accreditation has been maintained since then. The University is approved to provide educational services to veterans intending to pursue studies under the norms of the Veterans' Administration. The programs of the University are authorized by the Council on Higher Education of the Commonwealth of Puerto Rico and by the Commonwealth's Department of Education, which certifies teachers for the public school system of Puerto Rico. Inter American University's School of Law is accredited by the American Bar Association and the School of Optometry, inaugurated in 1981, by the Council on Optometric Education. In March 1982, the first doctoral program was initiated.

Inter American University is the largest private university in Puerto Rico. Enrollment, in recent years, has been maintained at approximately 43,000 students. At the present time, about 21 percent of all the Island's college students and 35 percent of the students who go to the Island's private colleges attend Inter American University.

Inter American University's tradition of public service, the geographical location of its instructional units and its continuing attention to student needs make it especially attractive and accessible to students from all the municipalities of Puerto Rico. The increasing availability of both Federal and Commonwealth funds for student financial aid has enabled many students, who otherwise would not have been able to do so, to get a college education.

Governance

The highest governing body of Inter American University is a self-perpetuating Board of Trustees, whose members are elected by the Board itself without any outside intervention or tutelage of any kind.

The President is the chief executive and academic officer of the Institution. The Managerial Systemic Council is composed of the President of the University, Vice-Presidents, Chancellors, the Deans of the Schools of Law and Optometry, an Executive Secretary appointed by the President, the Executive Director of the Information System, the Executive Director of the Office of the Juridical Advisor, the Executive Director of the Office of Evaluation and Systemic Research, the Executive Director of the Human Resources Office, the Executive Director of the Office of Promotion and Recruitment. In addition, when affairs relevant to their functions are being considered by the Council, the following persons will attend as advisors: the President of the University Council, and the Director of Planning and Systemic Development of Physical Plant.

Subject to the approval of the President of the University and of the Board of Trustees, the administration and the faculties of the School of Law and of the School of Optometry are responsible for their own academic programs and standards. Nevertheless, in all other respects, these professional schools are also subject to university-wide policies, norms and procedures.

The Academic Senates of the instructional units and the University Council, heirs of the Academic Senate created in 1966 and succeeded by the University Senate in 1973, are primarily concerned with the academic well-being of the University through the process of academic articulation among the campuses. The Academic Senates establish academic norms subject to the ratification of the University Council and the concurrence of the President. Both bodies formulate recommendations on affairs related to educational, administrative and research policy.

Vision

Inter American University of Puerto Rico is a top quality higher education institution in search of academic excellence, with emphasis on the formation of people with democratic and ethical values, framed in an ecumenical Christian context.

Institutional Mission

The main purpose of Inter American University of Puerto Rico is the development of talent in men and women, regardless of race, color, creed, sex, age, nationality, etc. This development occurs by means of a post-secondary education of wide and varied scopes, including, but not limited to liberal arts, graduate, professional and occupational career education, leading to the degrees, diplomas and certificates usually granted in institutions of post-secondary or higher education, recognized and accredited by public agencies.

In harmony with its main purpose, Inter American University of Puerto Rico has the mission to contribute to society through the formation of cultured citizens, conscious of their ethical, social and cultural obligation, and committed to democratic and Christian principles; to prepare occupationally and professionally trained human resources, with a civic and social sense of responsibility, that can exert effective leadership in the different fields of the human activity, and who are adaptable to diverse scenarios of activity, including foreign areas.

The education the University offers for these purposes, has to include the accumulated knowledge until the most recent manifestations, corresponding to the intellectual capacity of the type of student to which it is applied, as well as to this type of student's and society's needs. This requires the adoption of admission norms, study modalities, and levels of competencies that respond to the characteristics of the several groups that compose the student population.

Goals of the University

The University faculty and the administration strive to achieve the following institutional goals:

1. To provide and maintain a positive atmosphere in the university community that will foster intellectual, social, and moral development based on the fundamental values of Christianity.
2. To promote a liberal education that will lead to the development of an educated person, well-versed in the different fields of human knowledge through the development of critical thinking, moral and civic responsibility, skills in social integration, scientific and mathematical knowledge and a sensibility for the arts that enhance a full life.
3. To succeed in having the student become functionally proficient in the use of Spanish or English and in developing an acceptable level of competency in the other language.
4. To stimulate student understanding and appreciation of Puerto Rico's cultural heritage, its origins, development, contributions and relations with the Caribbean, the Americas and the rest of the world and the commitment to preserve it.
5. To offer a non-proselytizing cultural, ecumenical and moral religious education to increase student awareness of the place of religion in all civilizations and their understanding of its relationship to other disciplines.
6. To offer a variety of programs and services at the undergraduate, graduate, occupational and professional level in accordance with the changing necessities of the student population and of society in its global context.
7. To foster the ongoing growth and commitment of the faculty in the application of teaching methods, in the mastery of the subject matter and in their personal and professional development.
8. To foster the continuous development and improvement of the support personnel of the teaching staff.
9. To succeed in having the support programs for the teaching staff and student services and activities work in harmony with the academic program so as to enhance the total education of the student.
10. To achieve constant progress, properly planned, in the field of new technology with relation to the academic program, educational strategy, support of the faculty, student services and administration.
11. To stimulate research and creativity in the entire academic community to enrich the Institution's educational endeavors to increase human understanding of the environment and of the world and to generate new knowledge and technology.
12. To create an awareness of the social, cultural, economic, environmental, and political problems that confront the Puerto Rican society and to stimulate the search for solutions to these problems by defining and discussing them.
13. To promote maximum coordination and cooperation with educational institutions, professional agencies and institutions in Puerto Rico and abroad that foster educational improvement at all levels.

14. To stimulate the members of the communities the Institution serves to recognize the value of continuing personal and professional development by a variety of University program offerings that will enrich their lives and increase their knowledge.
15. To assume a leadership role in promoting the cultural and social enrichment and the prosperity of the communities the Institution serves.
16. To develop an educational philosophy based on education for peace.

Religious Life Policy

Inter American University of Puerto Rico is an ecumenically oriented institution, but does not adhere to any one particular theology or ecclesiastical body. Founded by Dr. John William Harris, a minister of the Presbyterian Church, Inter American University maintains a historic, friendly and enriching association with that communion as well as with other Christian groups in accordance with its ecumenical spirit.

Inter American University of Puerto Rico is a community of higher education dedicated to a comprehensive search for truth within an environment of responsible freedom and through the encouragement of a mature academic life which guarantees true freedom of investigation. Within this context, religion is studied in the University as an academic discipline designed to engage in fruitful dialog with other university disciplines.

In affirming its commitment to the Christian ecumenical ideal, the University dedicates itself to the renewal and reaffirmation not only of its own Christian heritage, but also the culture within which it is situated and which it serves. This does not oblige the acceptance of all the details of our Christian past nor of all the elements of modern Christianity. Nevertheless, the University has fostered and will continue to foster the convergence of all Christians in the one faith centered about the person of Jesus Christ as He is made known to us in the apostolic tradition of the Scriptures as the One whom Christians regard as decisive, definite and normative in man's relations with God and his fellow men and society. The University affirms its conviction that to be a Christian today implies, on the one hand, knowledge of and obedience to the Gospel and, on the other, identification with the Universal church by means of an individual commitment to a particular Christian communion.

The ecumenical posture of the University involves openness to society, science, technology and a plurality of faiths; it involves an integral education of each individual so he or she may exercise a vocation within his or her community in a responsible and productive way; it involves a commitment to serve though not to dominate society; and it involves the development of friendliness, fellowship and understanding to bridge human barriers.

The University promotes the following Christian-ecumenical values:

WE BELIEVE IN GOD AS A SUPREME BEING

God is the Supreme Being who created all that exists. His power and presence are revealed in the person of his Son Jesus, the Savior, and in the Holy Spirit, that guides the community of faith.

WE BELIEVE IN JESUS

We accept that the apostolic tradition of the Scriptures recognizes and accepts Jesus as decisive, definite and normative for humans' relations with God, their fellow men, family and society. Since He is the Savior and Mediator of Humanity, it is our commitment to continue fostering the convergence of all Christians through the one faith around the person of Jesus.

WE BELIEVE IN LIFE

We affirm that life is a gift of God. We foment that all human beings value their life so they may be able to give their best to the country, family and society. We promote the preservation of life, and therefore promote a Christian consciousness in education.

WE BELIEVE IN THE FAMILY

We believe that the family is the essential social nucleus where the initial values that shape the person are developed. We commit ourselves to reinforce these values, from their Biblical foundation, that help each human being to achieve the complete life and make it extensive to others.

WE BELIEVE IN SERVICE

We affirm our ecumenical Christian ideal and devote our efforts to renew and reaffirm service to our country, society, family and fellow men.

WE BELIEVE IN THE IDENTITY OF THE CHRISTIAN COMMUNITY OF FAITH

We affirm that the conviction of being Christian implies knowledge of and obedience to the Word of God and, also, identification and commitment to the Church and to the person's particular Christian community.

WE BELIEVE IN INTEGRAL EDUCATION

Our Christian ecumenical position provides openness to society, science and technology, with an integral mentality, an attitude of respect and a moral conduct in harmony with our values.

We foment the integral education of each person for carrying out his vocation in a responsible way and with a moral conduct and a productive performance in his community.

We are a community of higher education in an integral search of the truth, within an environment of freedom, through the encouragement of a mature academic life that guarantees the true freedom of investigation.

WE BELIEVE IN THE COMMITMENT WITH OUR FELLOW MEN

We believe that to be Christian it is to have and show a commitment of service to others based on love and not on the dominion of society, but rather on promoting friendship, solidarity, tolerance and understanding to bridge human barrier.

WE BELIEVE IN THE STUDY OF THE CHRISTIAN RELIGION

We promote the study of the Christian religion as an academic discipline in which a fruitful dialog with the other academic disciplines is maintained.

We will continue to strengthen the development of the religion studies program by providing all students the opportunity to acquire an understanding of the Christian faith and its implications for our culture.

To achieve this, Inter American University of Puerto Rico will continue and strengthen the development of its programs of religious studies and will provide to all its students an opportunity to understand the Christian faith and its implications for our culture; the University will furnish information about the most important aspects of the world's major religions to its students and will encourage them to appreciate these religions within their historic, theological and philosophic context. In this way, the search for faith and for the means to humanize mankind may be seen as a relevant option in a world striving for greater understanding and happiness.

The commitment of Inter American University to its Christian Heritage, as well as to its academic mission, will manifest itself through the development of an ecumenical program of religious life.

In accordance with this basic religious philosophy for the academic study of religion and for the development of religious activities, Inter American University, by its act and works, will:

1. Encourage the expression of the Christian principles here set forth,
2. Require the academic study of fundamentals of the Christian faith,
3. Require each instructional unit to establish an Office of Religious Life, which will serve the entire University community.

Accreditations

The eleven academic units of Inter American University of Puerto Rico are authorized by the Council on Higher Education of Puerto Rico and accredited by the Middle States Commission on Higher Education to offer university studies of the undergraduate, graduate and professional levels, as the case may be. Likewise, the University is

committed to the professional accreditation of its academic programs. For this reason, some academic units have programs accredited by the following organizations:

- Accreditation Board for Engineering and Technology
- American Bar Association
- Council on Accreditation of Nurse Anesthesia Educational Program
- Council on Optometric Education
- Council on Social Work Education
- International Association for Continuing Education and Training
- Joint Review Committee on Education in Radiologic Technology
- National Accrediting Agency for Clinical Laboratory Sciences
- National League for Nursing Accrediting Commission

Associations

Inter American University is member of the following professional organizations:

American Council on Education (ACE)
American Institute of Certified Public Accountants (AICPA)
Asociación de Colegios y Universidades Privadas de Puerto Rico (ACUP)
Asociación de Industriales de Puerto Rico
Association of American Colleges & Universities (AACU)
Association of Governing Boards of Universities and Colleges (AGB)
Association of Presbyterian College and Universities (APCU)
Broadcast Music, Inc.(BMI)
College Board
Council of Graduate Schools (CGS)
Hispanic Association of Colleges and Universities (HACU)
Hispanic Educational Telecommunications System(HETS)
National Association of College and University Attorneys (NACUA)
National Association of Independent Colleges and Universities (NAICU)
National Association of Student Financial Aid Administrators (NASFAA)
Organización Universitaria Interamericana (OUI)

Services for Veterans and Military Personnel

Graduate programs at this University are available to veterans, eligible dependents and military personnel, including DOD/CIV (Department of Defense/Civilians).

Detailed information may be obtained from the Office of the Registrar of the Campus in which they desire admission. This office coordinates services to veterans and military personnel and serves as liaison between the University and government agencies concerned with Veterans' Affairs.

Academic-Administrative Calendars

The calendars for the academic terms are available on the website of each of the campuses and professional schools.

Instructional Units

Inter American University offers academic programs in the following eleven instructional units: The Aguadilla, Arecibo, Barranquitas, Bayamón, Fajardo, Guayama, Metropolitan, Ponce and San Germán campuses; and in two professional schools: Law and Optometry.

Academic Degrees

Inter American University offers pre-university, undergraduate, graduate and professional academic programs for obtaining certificates and Associate, Bachelors, Masters and Doctoral degrees in subject matters normally offered by institutions of higher education of a nature, educational mission and goals similar to those of this University. The School of Law of Inter American University grants the Juris Doctor degree and the School of Optometry, the Doctor of Optometry degree.

Language of Instruction

Graduate courses may be taught in either Spanish or English.

Publications

Inter American University has a variety of publications to facilitate communication within the University community, with alumni and with other academics and academic communities.

Interamericana is the official publication of Inter American University. It is published four times a year and its approximately 30,000 copies are distributed to students, faculty, administration, alumni and friends of the Institution. This publication covers activities from all instructional units and features special interviews and current events affecting education or the development of the Institution as well as general information regarding the faculty and administration.

Videoenlace Interactivo is a publication of the Vice-Presidency for Academic and Student Affairs and Systemic Planning. Its objective is to share the experiences of professors and students in the field of distance learning. It serves as forum for dialog and the exchange of ideas in the use of technology in the educational process.

The *Law Review*, edited by students, is the official publication of the School of Law. Its articles are written by professors and students from the School of Law, judges and practicing lawyers. Because of the careful selection of its articles, the *Law Review* of Inter American University's School of Law is highly esteemed in the field of law.

Homines is published by the Metropolitan Campus. It contains critical analyses of current thoughts and events relevant to national and international affairs in the vast field of the social sciences. It is published twice a year.

Prisma is published annually by the Arecibo Campus. It has an interdisciplinary focus for the purpose of fomenting research and literary creativity in the University community. Essays, critiques, poems and short stories are published.

Surisla is published annually by the Ponce Campus. It transmits the literary works of the University community as well as the extramural contributions through an interdisciplinary focus.

Alumni Association

The Alumni Association Poly- Inter is an organization of graduates and former students who attended Inter American University or Polytechnic Institute. The Association keeps its members informed of University activities and involves them in its development. The Association is governed by a Board of Directors composed of 29 members, nine of which correspond to the alumni chapters of the different campuses and two members to the professional schools. In addition, the Association is represented on the Board of Trustees of the University by an Alumni Trustee. Each year the Alumni Association holds two primary activities: the celebration of Founders Day and the honoring of distinguished alumni.

Admission to Masters' and Doctoral Programs

No student shall be admitted to the Master's or doctoral programs, to the Specialist in Curriculum and Instruction program or to masters or doctoral courses without following normal admission procedures. Depending on where they wish to attend classes, applicants should send application forms to the addresses indicated below:

Director of Admissions
Aguadilla Campus
Inter American University
PO Box 20000
Aguadilla, Puerto Rico 00605-2000

Director of Admissions
Guayama Campus
Inter American University
PO Box 10004
Guayama, Puerto Rico 00785-4004

Director of Admissions
Arecibo Campus
Inter American University
PO Box 144050
Arecibo, Puerto Rico 00614-4050

Director of Admissions
Metropolitan Campus
Inter American University
PO Box 191293
San Juan, Puerto Rico 00919-1293

Director of Admissions
Barranquitas Campus
Inter American University
PO Box 517
Barranquitas, Puerto Rico 00794-0517

Director de Admisiones
Ponce Campus
104 Turpeaux Industrial Park
Mercedita, Puerto Rico 00715-1602

Director of Admissions
Bayamón Campus
Inter American University
Bo. Cerro Gordo
500 Highway 830
Bayamón, Puerto Rico 00957-6257

Director of Graduate Studies
San Germán Campus
Inter American University
PO Box 5100
San Germán, Puerto Rico 00683-9801

For information regarding the campuses authorized to offer the different masters programs consult this Catalog under their respective descriptions. This information is found before the presentation of the program requirements.

Applicants for Master's degrees should request that the registrars of colleges previously attended send transcripts directly to the appropriate Department Chairperson of the Campus at which they wish to enroll or to the Admissions Office, whichever applies. Requests by doctoral students should be sent to the Admissions Committee for Doctoral Studies at the appropriate aforementioned addresses. Transcripts and the applications for admission should be received by the appropriate Campus at least one month prior to the applicant's registration date. If a student is also applying for a graduate assistantship, all supporting papers for admission to the University should be received no later than April 30 for the first semester and September 30 for the second semester.

Admission of Special Students

Students from other institutions of higher education may take courses at this University to satisfy their home institution requirements if they have the proper authorization. These students must present evidence of registration in their home institution. Persons interested in taking courses for personal or professional improvement may also be admitted. Such persons should submit evidence of the academic preparation that qualifies them to take the courses.

Special students may take a maximum of twelve (12) credits.

Students, who later decide to continue their studies toward a degree, must have a minimum grade point index of 3.00 upon completion of twelve (12) graduate credits and must comply with admission procedures.

Admission of Audit Students

Students wishing to enroll in courses for audit must do so during the official registration period of the academic term or during the official period for changing courses. Such students must pay the course fee for auditing. Students who have not applied for admission should do so before registering as audit students.

Admission of Foreign Students

Foreign students should direct their inquiries to the campus they plan to attend. Generally, they are not admitted without a personal interview. University personnel will interview applicants in nearby countries where the number of applicants justifies the expense. If this arrangement is not justified, applicants are required to come to Puerto Rico on a tourist visa for an interview at their own expense. If an interview is necessary for distance learning students studying outside Puerto Rico, the interview may be conducted through means available to the student. The interview will be supervised by a proctor from the student's locality, as determined by the University.

If the applicants are approved for admission, the Admissions Office fills out the I-20 Form A from the Immigration and Naturalization Service which enables them to obtain student visas. This Form will not be filled out for students admitted to study outside Puerto Rico through one of the distance learning modalities.

Admission Requirements for Masters' Programs

To be considered for admission, students must:

1. Have a bachelor's degree from an accredited institution.
2. Have a grade point index of 2.50 or above in the last sixty credit hours of academic work at the undergraduate or graduate level or a combination of both levels, at students' discretion. Although generally these credits will be at the bachelor's level, students with graduate credits from an accredited university may combine these graduate credits with the last credits approved at the bachelor's level until completing the 60 stipulated credits. Applicants for admission to graduate programs who do not meet the required grade point index may count the grades of courses repeated after graduation for the admission index instead of the original grades.
3. Demonstrate, through an examination or other appropriate means as determined by the academic department or division, the ability to interpret professional material, both in Spanish and English, and the ability to express themselves correctly in writing in one of these languages.
4. Request an evaluation of their transcript by a specialized agency or by the academic unit where they are applying if their bachelor's degree or equivalent is from an accredited university that uses a grading system different from that in effect at this University.
5. Meet the test results of any test established by the program you are applying to.
6. Meet the admission criteria of the programs to which they are requesting admission. These criteria shall be established by the Department or Graduate Program and have prior approval of the Vice President for Academic and Student Affairs and Systemic Planning.

Provisional Admission to Masters' Programs

Students who have not met the baccalaureate course requirements for admission to a master's program may be provisionally admitted. Such students must complete these requirements, with a minimum grade of B, before or during the term in which they pass their first 12 masters' credits.

In addition, they will have until the beginning of the next registration period to comply with the other documents required in their provisional admission.

In case students have difficulty in obtaining the graduation certification or other official documents required by the Institution, they may be considered for provisional admission, if they meet the admission requirements and can submit a copy of the required documents or an electronically accessed version. Students may be admitted and granted a term of up to 30 days to submit the required documentation. The chief executive of the unit may extend that period for just cause. If students do not comply with the requirements by the end of the extension, they will be dropped from the University.

Admission of Transfer Students to Masters' Programs

Candidates for admission as transfer students to masters' programs will be considered if they meet the conditions presented in the section "Admission Requirements for Masters' Programs." Candidates must request that their university of origin send their official transcript to the officer or office indicated in the section of "Admissions Procedures for Masters' and Doctoral Programs" so that the credits to be granted for masters' level studies already taken may be determined.

Students that have begun studies for a master's degree in another accredited university may have up to 33% of the credits, of the requirements of the program to which they request transfer, accepted. Courses passed with grades of A or B may be considered for acceptance if they are equivalent to the corresponding courses offered by the master's program of Inter American University.

No academic work with credit taken earlier than 10 years or more before will be considered for acceptance. The expiration norm for masters' courses will be applied to such courses.

Provisional Admission of Transfer Students to Masters' Programs

Students who have not met the baccalaureate or masters course requirements for admission to a master's program may be provisionally admitted. Such students must complete these requirements, with a minimum grade of B, before or during the term in which they pass their first 12 masters' credits.

When students cannot provide some of official documents required by the University to complete the admission by transfer process, they will be admitted provisionally, if they provide a copy with these documents.

Student admitted provisionally will have thirty (30) calendar days from the date of admission to submit the required documents. The chief executive officer of the unit may extend that period for just cause. Students that do not comply with this requirement by the end of the extension will be dropped.

Admission of Undergraduates to Masters' Degree Courses

Undergraduate students at Inter American University who have a grade point index of 3.00 or higher and are within 30 credits of graduation may apply to the appropriate Department Chairperson for permission to enroll in Master's level courses. Undergraduate students with such permission are required at the time of enrollment to declare whether the credits obtained in such courses are to be applied toward an undergraduate or a graduate degree. The standard graduate tuition rate for those credits shall apply. Students receiving a grade of A or B in courses designated to be applied toward a graduate degree may request credit for those courses when applying for admission to the graduate program.

Readmission to Masters' Programs

Students previously enrolled in Masters' Degree Programs at this University and have not registered during the previous thirteen months, must apply for readmission through the Office of the Registrar of the campus to which they desire to continue their studies. Every application for readmission must be received at least three weeks before the first day of registration of the term in which students wish to resume their studies. An official transcript of any work taken while students were not enrolled at Inter American University should be submitted. Before being readmitted, students must receive an academic evaluation and orientation by the corresponding Program Director.

Readmitted students will be governed by the Graduate Catalog and other norms and regulations in effect at the time of their readmission.

Academic Admission Requirements for Doctoral Programs

To be considered for admission to doctoral programs, students, at least, must:

1. Have reasonable proficiency in Spanish and English.
2. Have taken one of the following tests, within five years immediately preceding the requested admission date and have received a score acceptable to the University if this test is an admission requirement of the specific program:

- a. Graduate Record Examination (GRE).
 - b. Miller Analogy Test (MAT).
 - c. Examen de Admisión a Estudios de Posgrado (EXADEP)
 - d. Graduate Management Admission Test (GMAT)
3. Have requested that three letters of recommendation be sent to the University.
 4. Be interviewed by the Admissions Committee of the program and have received a favorable recommendation.
 5. Meet the admission requirements of the doctoral program for which admission is requested.

Provisional Admission to Doctoral Programs

Students who have not met the bachelors' or masters' course requirements for admission to a doctoral program may be provisionally admitted. Such students must complete these requirements, with a minimum grade of B, before or during the term in which they pass their first 12 doctoral credits.

In addition, they will have until the beginning of the next registration period to comply with the other documents required in their provisional admission.

In case students have difficulty in obtaining the graduation certification or other official documents required by the Institution, they may be considered for provisional admission, if they meet the admission requirements and can submit a copy of the required documents or an electronically accessed version. Students may be admitted and granted a term of up to 30 days to submit the required documentation. The chief executive of the unit may extend that period for just cause. If students do not comply with the requirements by the end of the extension, they will be dropped from the University.

Admission of Transfer Students to Doctoral Programs

Candidates for admission as transfer students to doctoral programs will be considered if they meet the conditions presented in the section "Admission Requirements for Doctoral Programs." Candidates must request that their university of origin send their official transcript to the officer or office indicated in the section of "Admissions Procedures for Masters' and Doctoral Programs" so that the credits to be granted for doctoral level studies already taken may be determined.

Students that have begun studies for a doctoral degree in another accredited university may have up to 33% of the credits, of the requirements of the program to which they request transfer, accepted. Courses passed with grades of A or B may be considered for acceptance if they are equivalent to the corresponding courses offered by the doctoral program of Inter American University.

No academic work with credit taken earlier than 10 years or more before will be considered for acceptance. The expiration norm for doctoral courses will be applied to such courses.

Provisional Admission of Transfer Students to Doctoral Programs

Students who have not met the bachelors' or masters' level course requirements for admission to a doctoral program may be provisionally admitted. Such students must complete these requirements, with a minimum grade of B, before or during the term in which they pass their first 12 doctoral credits.

When students cannot provide some of official documents required by the University to complete the admission by transfer process, they will be admitted provisionally, if they provide a copy with these documents.

Student admitted provisionally will have thirty (30) calendar days from the date of admission to submit the required documents. The chief executive officer of the unit may extend that period for just cause. Students that do not comply with this requirement by the end of the extension will be dropped.

Readmission to Doctoral Programs

Students who have registered previously in the Inter American University doctoral program, but have not completed their course requirements and have not attended class during a period of 13 months must apply for

readmission through the Office of the Registrar of the Campus to which they desire to be readmitted. Every application for readmission must be received at least three weeks before the first day of registration of the term in which students wish to resume their studies. An official transcript of any work taken while students were not enrolled at Inter American University should be submitted. Before being readmitted, students must receive an academic evaluation and orientation by the corresponding Program Director.

Readmitted students will be governed by the Graduate Catalog and other norms and regulations in effect at the time of their readmission.

Distance Learning

Inter American University of Puerto Rico recognizes that technology and information systems are essential in the transformation of experiences that promote learning. Likewise, they are strategic components of the institutional infrastructure for supporting academic development and facilitating management. In harmony with Vision 2012, Inter American University is moving toward the transformation of the teaching and learning processes by developing new educational emphases through the incorporation of technology. Students will assume more responsibility for their learning, the faculty will become facilitating agents and the curriculum will be made more flexible with multiple modalities.

In this way, the Institution increases the extent of its academic offering, maximizes its resources, reaches beyond the limits of the traditional classroom and promotes and provides new alternatives for continuous learning.

Distance learning is conceived as formal educational process in which the major part of the instruction occurs when the student and the instructor are not in the same place at the same time. This is a planned experience in which the variety of synchronic and asynchronic technologies such as: email, videoconferences, interactive videoconference in audio and in video, and other modalities to promote learning when the student is at a different location from that of the professor. These experiences are designed to stimulate interaction and verification of learning.

Admission Requirements for Distance Learning Students

The admission requirements for distance learning students, including transfer and foreign students are explained in the corresponding sections of this Catalog applicable to students interested in studying by regular modalities.

Objectives of Distance Learning

1. To utilize technology as an instrument to increase and strengthen the University Mission in its global context.
2. To develop new approaches so that students may assume greater responsibility for their learning and faculty may become better facilitating agents of the learning process.
3. To share and maximize academic offerings and institutional resources beyond the limits of the campuses.
4. To promote equal opportunity for information access beyond the limits of time and space.
5. To increase the student population to which Inter American University offers academic programs.
6. To facilitate the establishment of collaborative agreements and consortia with other educational institutions in an outside Puerto Rico with the purpose of strengthening and sharing academic offerings.
7. To strengthen and enrich developmental programs and professional update.
8. To meet the particular needs of students with disabilities.
9. To meet the multiple needs of a heterogeneous student population.
10. To meet the particular needs of the adult population.
11. To extend institutional services beyond geographic frontiers.

Technologies and Media Used in Distance Learning

Distance learning uses diverse technologies for the transmission of video, voice and data; thus, making possible a teaching and learning process beyond the limits of time and space. There are a variety of courses using these technologies as the basis for the learning experience, for example, interactive video conference courses, televised courses, radio courses, video courses, online courses, courses recorded on CD-ROM, desktop conferencing and courses in Internet. All courses differ in the means used to achieve teaching objectives: the teaching process for promoting the development of concepts and skills, the degree of interaction between faculty-student and student-student, the assessment and certification of learning.

Inter American University has incorporated the following technologies and media into its teaching and learning process.

Interactive Videoconference

These are courses offered by the synchronic modality that consists in interactive transmission of video, voice and data. The course originates in one place with participating students in remote localities. The faculty-student and student-student interaction occurs in a simultaneous or synchronic manner. The instructor may make use of electronic presentations and other computerized materials, as well as segments of video and other educational materials. This implies previous and extensive planning and development of such materials. In addition, the prior sending of materials for each session by means of fax, Web, or Internet is required. Also, the presence of a facilitator or official in charge of the discipline (for example, a teaching assistant or graduate student in an internship) and compatible videoconference equipment are required at the remote sites.

Courses On-Line

Courses are offered through the World Wide Web. Students have computers with access to Internet where they will receive materials and send their assignments and other work. The communication and interactivity between faculty-student and student-student is attained primarily through Internet, telephone and fax. This modality requires the development of all materials and their inclusion in a Web server prior to the initiation of the course offering. If students desire to access the courses from outside the University, the Institution guarantees them remote access to information resources but students are responsible for having their own computers.

Video Courses

These are courses prerecorded in video for loan, rent or sale to distance learning students. The faculty-student interaction is accomplished by telephone, fax, Internet or other means designated by the faculty.

Email Courses

These are courses for which students are given the course syllabus, course materials and an e-mail account. Students have computers with access to Internet to communicate with the instructor. The communication and interactivity between faculty-student and student-student is attained primarily by e-mail. If students desire to have access to Internet from outside the University, the Institution guarantees them remote access to information resources but it will be the responsibility of the students to have their own computer.

In summary, the combination of media and technology and their complementary use in the traditional classroom promise to enrich learning experiences at the University.

Proctored Evaluations

This refers to the evaluations administered by authorized personnel other than the course professor in the distance learning modality. The evaluations are administered in a locality accessible to the student.

Each campus will establish the rules and procedures for the administration of proctored evaluations in distance courses.

Teleconference Center

The University has a Teleconference Center whose mission is the systemic coordination of the application of telecommunication tools as well as those of interactive videoconferences in distance learning. This Center promotes faculty competence and interactive distance learning through courses, teleconferences, meetings, seminars, and conferences. The Center provides simultaneous interaction with video, voice and data, which permits complete interaction between faculty members and students located at distant sites. At present, the Central Office of the System, as well as the Arecibo, Barranquitas, Bayamón (including the School of Aeronautics), Guayama, Metropolitan, Ponce and San Germán campuses have videoconference rooms equipped with advanced telecommunications technology which permits the integration of multimedia.

Tuition, Fees and Other Charges

(Master's and Doctoral Programs)

APPLICATION FOR ADMISSION

Masters Degree Students \$31.00 with application
 Doctoral Students \$75.00 with application

APPLICATION FOR READMISSION

All Students \$13.00 with application

TUITION

Master Degree Courses \$202.00 per credit
 Doctoral Courses in Education, Theological Studies and Psychology \$297.00 per credit
 Doctoral Courses in Entrepreneurial and Managerial Development \$417.00 per credit
 Auditing without credit 50% of the regular cost per credit

FEES

Fees	Semester	Trimester	Bimester	Summer Session
General University Fee	\$60.00	\$40.00	\$32.00	\$28.00
Student Center *	\$19.00	\$13.00	\$10.00	\$6.00
First Aid Center*	\$15.00	\$10.00	\$9.00	\$6.00
General: Doctorate in Entrepreneurial and Managerial Development	\$350.00	\$235.00	\$175.00	\$175.00
Student Activities and Council	\$14.00	\$10.00	\$8.00	N/A
Information Access Center	\$25.00	\$17.00	\$13.00	\$12.00
Infrastructure Fee for Masters and Doctorates	\$64.00	\$47.00	\$40.00	\$40.00
Construction, Improvements and Maintenance Fee: Masters and Doctorates	\$63.00	\$44.00	\$35.00	\$31.00

***Does not apply to distance learning students who reside outside Puerto Rico in this particular academic term. The fee for the student center is charged in the academic units that have a center.**

OTHER FEES

Late Registration \$50.00 upon registration
 Withdrawal from Courses (One or more courses during refund period) \$6.00 upon withdrawal
 Course Additions or Changes \$6.00 upon change
 Deferred Payment Arrangement \$6.00 upon arrangement
 Late Payment of Deferred Payment 5% of principal
 Transcript of Credits \$3.00 per transcript
 Graduation
 School of Optometry \$200.00 with application
 All other units \$100.00 with application
 Internship or Practice Teaching \$19.00 per credit
 Music Program: for one course \$63.00 per semester

Music Program: for two or more courses	\$125.00 per semester
Maintenance of Active Status: Doctoral Program	\$31.00 per semester
Comprehensive Examination	\$25.00 with application
Late Final Examination	\$19.00 per examination
Removal of Incomplete	\$19.00 upon application per course
Returned Check	\$26.00 each time check is returned from the bank
Identification Card Replacement	\$7.00 each time requested

Applicable only to San Germán Campus

Room and Board Eunice White Harris and Dr. Angel Archilla Cabrera Dormitories Room per person (4 occupants)	\$500.00 per semester \$175.00 per summer session
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(The cost for room is refundable if requested 25 University workdays before the start of classes for each semester or seven University workdays before the first day of classes for the summer sessions.)

Dormitory Room Reservation	\$25.00 with application
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(The deposit for the Dormitory Room Reservation is applicable to the Room Fee: this is refundable if not admitted to the dormitory.)

Loss of room key	Depending on the cost of lock replacement
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Meals - 5 days per week	\$750.00 per semester
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(This includes three meals daily Monday through Friday, beginning on the first day of classes until the last day of final examinations. It does not include official University Holidays nor Saturdays or Sundays.)

Fees and other charges are not reimbursable after the beginning of classes.

Board: The student will be entitled to a prorated adjustment for the cost of meals for the time that the services are not used when the student withdraws from the University.

Room: These charges are not refundable, unless the space is immediately occupied by another student.

CHANGES IN TUITION AND FEES

The University reserves the right to change tuition fees and other charges when:

1. There is an increase in educational and general fees and/or mandatory transfers.
2. Budget projections indicate a possible increase in these costs.
3. After careful analysis of any particular situation, the University administration determines that such changes are reasonable and justified.

PAYMENTS

The total cost of tuition fees and other charges is payable at the time of registration.

The difference between the total cost of tuition, fees and other charges and the total amount of financial aid a student receives (except aid received under the Federal Work-Study Program) is payable at the time of registration.

Payments may be made by means of money orders, checks drawn to the order of Inter American University of Puerto Rico or in cash. Payment may also be made by MasterCard, Visa, American Express or ATH debit cards. In addition, payments may be made through Banco Popular de Puerto Rico at any of its branches, by mail or by telepago.

Deferred Payment Arrangements

The University grants students the privilege of a deferred payment for 50% of the total cost of registration per semester, trimester or bimester upon signing the deferred payment document 'Pagaré Único.' To be eligible for deferred payment, students must have liquidated any debts from previous academic terms. In no case shall the total amount deferred exceed the balance of the debt after discounting the financial aid benefits or loans.

The chief executive officers of the academic units may, in exceptional cases, increase the percentage of the deferral if it is understood to be beneficial for the Institution after an analysis that indicates, with a reasonable degree of assurance, that the debt will be paid.

No deferred payment will be given for amounts less than \$50.00.

The payment of the deferred total cost of tuition, fees and other charges becomes due seventy-five (75) days after the first day of class in a semester calendar, forty-five (45) days in a trimester calendar, and thirty (30) days in a bimester calendar. The deferred amount for semesters is due in a maximum of three equal installments, two payments in the case of trimesters, and one payment in the case of bimesters.

The award of a deferred payment carries a fee to cover part of the administrative expenses of this service. There will be a charge of 5% on an installment that is not paid by its due date.

It is the responsibility of each student to know when payments are due and make arrangements accordingly.

Students who do not meet their financial commitments by the due date may be suspended and will not receive a grade in courses in which they have enrolled. Students who have not met their financial commitment will lose their rights to receive University service until their debts are removed in accordance with the Federal and Puerto Rican regulations.

THERE IS NO DEFERRED PAYMENT PLAN DURING THE SUMMER SESSIONS except by authorization of the Vice-President for Financial Affairs, Administration and Services. This deferred amount must be paid within thirty (30) days from the last day of classes of the summer session in which the aid was awarded.

Debts for other Reasons

When students or former students of the University are in debt to the University for any cause other than that of a deferred payment as explained in the Catalog, independently of any payment plan granted or any collection procedure that may be initiated or has been initiated, they lose their rights to receive University services until the debt is paid in full.

Students transferred from another educational institution who have debts with any of the federal financial aid programs will not be eligible for financial aid at this University.

ADJUSTMENTS AND REIMBURSEMENTS

Partial Withdrawal

Per Semester, Trimester, Bimester and Summer Session:

100% of the cost of the credits and laboratory fees (not including other fees) that are dropped before classes begin.

75% of the cost of the credits and laboratory fees (not including other fees) dropped during the first and second day of class.

50% of the cost of the credits and laboratory fees (not including other fees) dropped during the third and fourth day of class.

THERE WILL BE NO REIMBURSEMENT AFTER THE FOURTH DAY OF CLASS

These adjustments will apply to students that pay the total cost of registration in cash.

Institutional Policies and Procedures of Return of Funds Applicable to Students with a Total Withdrawal

The Policy for Return of Funds is applicable to all students that pay their registration in cash, with financial aid under Title IV Programs, or from other state or institutional programs or from health allied programs or with any other payment method and who officially withdraw from all courses, stop attending class, never attended class or are expelled from the University.

Return of Funds to Title IV Programs

Students who officially withdraw: To determine the applicable percentage the last date of withdrawal up to 60% of the term.

Students who stop attending class: The Policy for Return of Funds will be applied up to 60% of the term with a refund equivalent to 50% of the assigned funds.

Students who never attended class: One hundred percent (100%) will be refunded

Return of Funds to State or Institutional Programs, Health Allied Programs or for Payments made in Cash or any other Method of Payment

For students who officially withdraw from all courses, stop attending class or never attended class the return of funds previously accredited will be as follows:

Per Semester, Trimester, Bimester and Summer Session:

100% return of funds before classes begin.

75% return of funds during the first and second day of class.

50% return of funds during the third and fourth day of class.

THERE WILL BE NO RETURN OF FUNDS AFTER THE FOURTH DAY OF CLASS

Per Summer Session:

100% return of funds before classes begin.

75% return of funds during the first and second day of class.

50% return of funds during the third and fourth day of class.

THERE WILL BE NO RETURN OF FUNDS AFTER THE FOURTH DAY OF CLASS

Per Intensive Session:

100% return of funds on or before the first day of class.

75% return of funds during the second day of class.

50% return of funds during the third day of class.

THERE WILL BE NO RETURN OF FUNDS AFTER THE THIRD DAY OF CLASS

Students who pay with financial aid will be responsible for the difference resulting from reimbursement to the fund and registration costs. In case a balance remains, this will be returned to the student.

Student Financial Aid

A limited number of assistantships are available each semester for students in both the Masters' and Doctoral programs. Applications for these should be submitted to the chairperson of the department from which the assistantship is desired by April 30 for the first semester and by September 30 for the second semester.

At the Master's level, the assistantships provide a stipend and tuition benefits of six (6) credits per semester.

At the Doctoral level, the assistantships provide a stipend equivalent to the pay for teaching three (3) credits.

Participation in the following financial aid programs requires submission of an application on or before April 15 of the previous year.

Study Benefit Time Limits for Veterans and Beneficiaries

The beneficiaries of educational services for veteran, including eligible family relatives, have the right to enjoy these benefits only for the required period of study for completing their academic degree as established in this Catalog and by the applicable legislation and regulations.

Commonwealth Funds

This law permits the creation of the following financial aid programs for postsecondary students: Supplementary Educational Aid Programs, Scholarship Programs and Supplemental Educational Aid for graduate students and PROGRESAH, a program directed to honor students in their third and fourth year that have at least a 3.75 grade point average. The Financial Aid Office of each campus is prepared to offer information regarding the eligibility requirements of these programs.

Institutional Scholarships

Inter American University allocates funds for scholarships each year according to student needs.

Perkins Federal Loan (formerly NDSL)

This is a low interest loan available to undergraduate and graduate students whose studies lead to a degree. Students must demonstrate their intention to pay. They are required to sign a promissory note and other documents. Participants will begin payments on principal and interest six (6) months after the last term in which they studied with an academic load of at least six (6) credits.

Students participating in the Program for the first time on or before July 1, 1987 will begin payments nine (9) months after the last term in which they studied with an academic load of at least six (6) credits. Students may apply for deferral and cancellation of installments. The annual interest rate after October 1, 1981 is 5%. These funds are assigned preferably to students with exceptional needs.

These funds are matched with Inter American University funds.

Federal Stafford Loan

This Program offers both subsidized and unsubsidized loans. Subsidized loans are awarded on the basis of financial need and the federal government pays interest on the loan until the borrower begins to pay. The government also pays interest during periods of authorized deferment. Unsubsidized loans are not awarded on the basis of need and interest is charged from the time the loan is disbursed until it is paid in full.

For both subsidized and unsubsidized loans, students should apply directly to the University. After the Free Application for Federal Student Aid (FAFSA) is reviewed the University will inform students of their loan eligibility.

Graduate students may borrow up to \$20,500 each academic year (at least \$8,500 of this may be in subsidized loans). The total debt that a graduate or professional student may have is \$138,500 (no more than \$65,500 of this amount may be in subsidized loans).

Federal Work Study Program

The funds provided by the Federal Government to this Program are supplemented by funds contributed by Inter American University. Participants are assigned employment, unless the institution is exempt from this requirement, for which they receive compensation. This contributes toward payment of their educational expenses. When possible, students are assigned employment related to their field of studies.

Services Related to the Office of the Registrar

The Office of the Registrar is responsible for the registration, and maintenance of all official academic records of students, the issuance of transcripts and certification of studies and certification that students have met graduation requirements. It also issues study certification upon student request. There is an Office of the Registrar at each University campus. Forms requesting services of the Registrar are also available through Internet.

Registration and Program Changes

Students will register on the day and time designated for this purpose. After registration, a designated period will be given on the Academic Calendar to make changes in program schedule, to add or drop courses or to change course sections.

1. Program modifications during the period of changes:

To add or drop a course or change a course section during the period of change designated on the Academic Calendar, the student should complete a change of program form. The student will then pay the fee set by the Business Office and will present the form to the Registrar's Office to be processed.

2. After the period of change of program has ended, a student will be able to drop one or more courses (partial withdrawal or total withdrawal). For partial withdrawal, the student will first consult the professor of the course and will present a completed partial withdrawal form to the Registrar's Office. When the professor is not available, the director of the department will sign the partial withdrawal form. After dropping the course, the student will be able to continue attending the course with the instructor's permission. For total withdrawal from the University, please consult the section "Withdrawal from the University" of this Catalog. A student who drops a course or completely withdraws from the University during the period designated on the academic calendar will receive a grade of W. The periods for partial or total withdrawal from courses will be:

- a. Semester: last day of class.
- b. Trimester: last day of class.
- c. Summer: last day of class.

3. When a student stops attending a course, and does not qualify for the grade of Incomplete or F, the professor will enter the symbol UW in the column "Grade" and will indicate the student's last date of class attendance or the student's last activity related to the course in the column "Last Attend Date", following the format of the BANNER System: DD/MON/YYYY (day, month, year).

Audit Students

Students who wish to register in courses as audit students must do this during the registration or the class program change periods.

Withdrawal of a Course from the Class Schedule

The University will make every reasonable effort to offer courses as announced, but it reserves the right to withdraw a course from the schedule, when it deems it necessary.

University Policy Regarding Students and Alumni Directory

The University, in compliance with federal law "Family Educational Rights and Privacy Act (FERPA), provides students and alumni access to their academic files, the right to request that the information contained in those files be amended and certain control over the disclosure of academic information.

1. Students and alumni have the right to inspect and review their academic files. They may request this in writing to the file custodian and indicate the file they wish to review. The file custodian will make

the necessary arrangements so that the student or alumni may review the files within a period of time no greater than 45 days from the date in which the student or alumni presented the written request. If the person receiving the request from the student or alumni does not have the file, this person will indicate the correct place for the request to be presented.

2. Students and alumni have the right to request that incorrect information contained in their academic files be corrected. Interested students or alumni must present a written request to the University official in charge of the file, indicate the part of the file to be corrected and explain the mistake. If the University decides not to correct the file, the student or alumni will be notified of this decision in writing and the person will be informed of the right to request an informal hearing.
3. Students or alumni have the right to prevent the University from disclosing personal information found in the academic files, except in those cases where FERPA authorizes disclosure. These cases include the following:
 - a) Disclosure of information to Institution officials. Institutional officials are taken to mean administrative or teaching employees, persons contacted by the University, members of the Board of Trustees and student members of special committees.
 - b) Disclosure of Directory information. The University has designated the following data as Directory information: student or alumni name, address, major and year of study.

Students and alumni have the right to prevent the University from disclosing Directory information to third parties. The disclosure to third parties includes the release of information to the Armed Forces. If students or alumni wish to prevent their information from being disclosed to the United States Armed Forces, it is necessary that they express their desire that no information be disclosed to third parties.

To prevent information from being disclosed to third parties, it is necessary that students or alumni submit their request to this effect, in writing, to the Office of the Registrar of their academic unit. In order for the request to be effective for the academic year, it is important that students submit the request in or on September 1st of that year.

- c) Information to other universities. The University will release student or alumni information to those universities to which they request admission.
- d) Exceptional circumstances. The University will disclose student or alumni information if they are economically dependent upon their parents. The University assumes undergraduate students and alumni are economically dependent upon their parents; therefore, in some cases it may disclose information without the consent of the student or alumni to parents that request it. Undergraduate students or alumni who are not economically dependent upon their parents must present this evidence to the Office of the Registrar to prevent information from being released to their parents. Information on graduate students or alumni will not be given to parents without their consent.
- e) Emergency cases. These are cases in which the health or security of a student, alumni or other person is in danger.
- f) Immigration and Naturalization Service. The University is obliged to give information to Immigration Service regarding certain foreign students or alumni.

If students or alumni believe that the University has not complied with these obligations, they have the right to file a claim to Department of Federal Education, Family Policy Compliance Officer, 400 Maryland Avenue SW, Washington D.C. 20202-4605.

Solomon-Pombo Act

Inter American University established its institutional policy regarding the student and alumni directory for the academic year 1999-2000. This measure was adopted to incorporate the new changes in the federal laws known as the Solomon-Pombo Act. This federal law permits third parties to request from the Institution all personal data that is included by the University as Directory information.

Inter American University establishes the following data as Directory information:

1. Name
2. Major

3. Address
4. Year of study

The University exhorts all students not in agreement that these data be included in the Directory to contact the Dean of Studies of their Campus.

Student Records

Students requiring information concerning records or issuance of transcripts should contact the Office of the Registrar in the unit where they were registered.

At the end of each academic term, the Registrars will mail grade reports to their respective students. Students who believe there are errors in these reports should notify the appropriate Registrar, in writing. The deadline to submit these claims is the date established for withdrawal with the administrative action symbol of W for the following academic term of the same type. A student who does not receive a grade report should contact the corresponding Office of the Registrar.

Student Academic and Personal Files

Student academic and personal files are confidential and the release or handling of information contained in them is limited to certain faculty and administrative personnel who, in the regular exercise of their functions, have to work with these files. Students have the right to examine their academic or personnel file at any moment in the presence of an official of the Office of the Registrar. They may not make copies of the documents contained in their files, except in the cases explained below.

The information contained in the academic or personal files may be released to parents of dependent students. Parents must present evidence of their condition as father or mother, as well as the dependency of the student through the presentation of relevant documentation. The information contained in the academic or personal files may not be released to students' parents in any other cases.

The release of information contained in the academic or personal files of students to third parties, to any type of institution, to government or judicial agencies will only be made with written authorization from the student or in compliance with an order to this effect issued by the competent authority.

Transcripts, study certification and certification of degrees are available to students who may obtain them in the Office of the Registrar. The cost of each transcript is \$3.00.

Transcripts requested for transfer to another educational institution, for continuing graduates studies, completing the requirements of certifying agencies or for the purpose of employment are sent directly to the address provided by the student in the request. In no case will transcripts requested for these purposes be delivered to the student.

The request for transcripts by students whose files are active will be processed within a reasonable time that under normal circumstances should not exceed ten days from the date on which the request was received in the Office of the Registrar. The requests for transcription of students whose files are inactive require a longer time to be processed.

Change of Address

When students register, they are required to file their mailing address with the Office of the Registrar. Changes of address should be reported immediately to the Registrar. If this address is not kept up-to-date, the University will not be responsible for notifications sent to the student.

Any notice, official or otherwise, mailed to a student's address as it appears on the records shall be deemed sufficient notice.

Class Attendance

Regular class attendance and meeting the requirements established for courses offered by non-traditional modalities are considered by the University as essential elements of the educational process. For this reason, class attendance is required of every student registered in courses requiring their presence. In the same manner, the fulfillment of requirements is compulsory for all courses offered by non-traditional modalities. Student participation

in institutional activities will be considered a valid excuse for not attending class. Students are responsible for completing course requirements as stipulated in the course syllabus.

Students, who have not attended any classes during the first two weeks of the academic semester or its equivalent, will be dropped administratively from the course. The instructor, after receiving the class lists, will submit, in writing, the names of all such students to the Office of the Registrar through the Department Chairperson. For administrative purposes, these administrative drops will be considered equal to withdrawals for which the student has applied, as established in the Adjustments and Reimbursements section. Inter American University requires its faculty to report the last day of attendance, or any other course-related activity of students who drop class in each academic term. For this, the faculty must keep a record of class attendance of the students, or of their participation in the other activities of the course. The faculty will report the last day of attendance, or of student participation in course activities of those students who dropped class without having withdrawn officially from the University. The administrative action symbol NA will be used to identify these students.

The last date of class attendance will be used to determine the applicable refund for students who stop attending class without officially withdrawing. This arrangement is established in harmony with University norms.

Withdrawal from the University

Students wishing to withdraw from the University must report to a professional advisor or to the person designated by the Chief Executive Office of the academic unit. Then, they should report to the Office of the Registrar to fill out the withdrawal form and proceed as directed. For withdrawal from the University by students who are completely distance learning students or for withdrawals not requested in person, students should inform their desire to withdraw by regular or electronic mail to the Registrar of the academic unit. When a student withdraws from the University, the criteria for determining grades will be those outlined in “Registration and Program Changes.”

Undergraduate Prerequisites

Undergraduate course prerequisites may be taken concurrently with graduate courses if the Department Chairperson gives permission.

Course Load

A normal course load of a regular graduate student is from eight (8) to twelve (12) credits per semester or be registered in a thesis or dissertation course. In order to take more than twelve (12) credits; students must have special permission recommended by the appropriate Department Chairperson and the approval of the Dean of Studies.

In the case of a trimester program a normal course load is from six (6) to nine (9) credits or be registered in a thesis or dissertation course. In order to take more than nine (9) credits; students must have special permission recommended by the appropriate Department Chairperson and the approval of the Dean of Studies.

Students are classified as fulltime or part-time according to the number of credits they are enrolled in. Under the semester, trimester and bimester calendars these classifications are as follows:

- Fulltime - six or more credits
- Three-fourth-time - from four to five credits
- Half-time - from two to three credits
- Less than half-time - one credit

Thesis or dissertation courses will be considered as a full-time academic load.

Repeating Courses

Students will have the right to repeat courses when not satisfied with their grades. In case a course is no longer offered by the University, students may substitute it with an equivalent course approved by the Vice President for Academic and Student Affairs and Systemic Planning. The highest grade and its corresponding credit will remain

on the student's transcript and the lower grade will be changed to an R (repeated course). The administration action symbol, R, and its corresponding credits will not be considered in determining if a student has satisfied the graduation requirements. Courses repeated after graduation are not considered in the computation of the graduation grade point index.

Grading System

Course grades indicate the degree of a student's achievement in any given course. The University has established a quality point system to be used in accumulating and summarizing these grades. This quality point system is used to determine the minimum degree of general competence for graduation and for continuing in the Program at any level and to assign special honors to students who excel. Grades are reported in accordance with the following grading system:

- A- superior attainment; 4 honor points per credit hour.
- B- above-average attainment; 3 honor points per credit hour.
- C- average attainment; 2 honor points per credit hour.
- F- failure; no honor point per credit hour.
- P- passing; this grade is assigned to students satisfying the requirements in courses taken by proficiency examinations and for courses in which such a grade is required. This grade is not included in the computation of the grade point index.
- NP- not passing; this grade is assigned to students who fail in the courses indicated under the grade P. This grade is not included in the computation of the grade point index.
- TP- thesis in progress
- DP- dissertation in progress

Only courses completed at Inter American University are included in the computation of the grade point index. The grade point index is determined by dividing the total number of honor quality points by the total number of credits completed with grades A, B, C, or F. The grade of D is not given at the graduate level.

Change of Grades Request

Students who believe that their final grade in a course is erroneous must notify this to the course instructor. This faculty member will be responsible for discussing the evaluations with the student and if necessary will submit a grade change according to the corresponding process.

If students are not satisfied with the attention given to grade change request, they may resort to the procedure established in Article 2, Part A, number 8, of the General Student Regulations.

The deadline for requesting a change of grade will be the deadline for withdrawal with a grade of W of the academic term following the term of the same type in which the grade was given.

Administrative Action Symbols

The following symbols are used to indicate administrative action taken in regard to student status in courses for which they registered:

- W- Course Withdrawal: Assigned when the student withdraws from a course after the end of the period for class changes and no later than the date established on the academic calendar for withdrawals with W.
- DC- Course Withdrawal: Assigned when the student withdraws from a course before the end of the period for class changes. This symbol does not appear on the student transcript.
- AD- Administrative Drop: Assigned when the University drops the student for reasons such as death, suspension or other situations warranting a drop.
- AW- Assigned in the electronic register when the professor informs that the registered student never attended the course or any related academic activity. The period of registration and withdrawals will be seven calendar days starting on the first day of the semester and trimester academic term. For short academic terms it will be a period of proportional time.

- I- Incomplete: When students have not completed a course requirement and present valid reasons for it, the professor may assign the symbol “I” (Incomplete). Together with the symbol “I”, the professor will include a provisional grade, after assigning zero for the unfinished work. When faculty members assign an “I”, they shall report to their immediate supervisor the grade that the student has earned up to that time, the evaluation criteria and a description of the unfinished work if applicable. A student who receives an “I” must remove it by the date specified on the Academic Calendar. The responsibility for removing the “Incomplete” rests on the student. If the “Incomplete” is not removed within the time specified, the student will receive the informed provisional grade. This policy will apply whether or not the student is enrolled at the University for the following semester.
- AU- Symbol used to indicate on student transcripts that the course was audited. No honor points or University credit are awarded.
- R- Symbol used to indicate the course was repeated.
- T- Symbol used to indicate the course was transferred from another institution.
- UW- Assigned in the electronic register when a student stops attending a course, and does not qualify for a grade of I or F.
- MW- Symbol used to indicate total withdrawal for military reasons

Veterans Services

The services for veteran students are explained in the General Information section.

Support Services and Student Life

Academic Counseling

The University offers academic counseling services to all students. Once students have selected their specialization, the academic advisor assigned will guide them in the process of maximizing their potential for study.

Students should meet with their academic advisors to plan their program of studies during the semester/trimester. The responsibility for planning the program of studies rests on the student.

Professional Counseling

The professional counseling services facilitate the adjustment of students to the university environment through professional counselors. These services include academic guidance and counseling and vocational and personal counseling. Help is provided to students in the development of educational, vocational and personal goals and in the achievement of a greater integration and participation in the university community.

Audiovisual Center

Each Center offers a variety of audiovisual services to assist in the teaching-learning process. These use the most modern technological resources available. The Audiovisual Center has two main functions: the production of audiovisual and related materials to complement the educational process and the offering of direct services to faculty and students.

The Centers design and produce their materials in facilities for sound and television recordings and for photography and the graphic arts. Projection services for individuals and groups as well as exhibitions are offered.

In general, these Centers gear their efforts towards facilitating the imparting of knowledge. The Centers contain collections of current materials in all curricular areas.

Information Access Center (Library)

Each academic unit has an adequately staffed and equipped Information Access Center. These Centers are organized to function as a coordinated system. An on-line catalog provides access to all University bibliographical resources as well as to other resources that are made available for computer based research.

The Centers provide remote access to the electronic databases to University students, faculty and administrators through Internet.

Each Information Access Center has developed as an integral part of the University programs in which a number of activities take place, including bibliographical literacy, which is used to provide students with orientation on the educational resources and the facilities and services available.

The system collection contains more than one million volumes of printed and non-printed materials in microform and audiovisual items.

Educational Resources System

The University stresses the importance of developing educational resources that complement the teaching function. As a result, several programs have been implemented to integrate the latest technological advances to the University's educational services.

Medical Services

The academic units, except the School of Optometry, have a First Aid Center that offers first aid and offers guidance on the health care.

Residence Halls - San Germán Campus

At the San Germán Campus, there are separate but equal dormitory facilities for men and women. A deposit of \$25.00 for a room in one of the residence halls should be made at the time the student applies for admission. The \$25.00 deposit will be reimbursed in full upon request if the student is not accepted for admission. Application for a room should be filed as early as possible because accommodations are limited.

The application form, as well as further information about dormitories, can be obtained from the Office of the Dean of Student Affairs at the San Germán Campus.

Rooms will be reserved until the day the student is scheduled to register. If the room is not claimed by that day, the reservation will be canceled.

When students are accepted, they receive a copy of the dormitory regulations. It is their responsibility to read such regulations carefully and to follow them for their own welfare and that of other students residing at the dormitories. Students who violate dormitory rules may be required to vacate the residence or, in the case of serious violation, may be suspended or expelled from the University.

Student Activities

During the academic year, the University and the Student Council of the various instructional units sponsor a variety of cultural, social and recreational activities in which all students and the University community are invited to participate. Such participation fosters personal growth and provides leadership training by encouraging mutual understanding and cooperation and by emphasizing the ideals of service, good citizenship and respect for human values. The University, within the limits of its resources, endeavors to provide such activities.

There are many clubs and organizations at the instructional units. These organizations may be academic, professional, cultural, recreational, social, sports or religious in nature. The Office of the Dean of Student Affairs at the various instructional units will provide, upon request, up-to-date information on clubs and organizations and their current officers and membership.

Religious Activities

Reflecting the commitment of the University to its Christian roots, each campus has a Religious Life Office that responds to the Institutional Pastoral Plan promoting faith experiences from an ecumenical and Christian perspective. Each instructional unit also offers pastoral care services, spiritual enhancement and reflective experiences, in addition to the established celebrations during the liturgical year. The participation of the University community is encouraged in the different events, but is completely voluntary.

Student Councils

Student councils, as provided by the General Student Regulations, may be organized at all the instructional units of the University. Their members are elected from the student bodies according to the established procedures. These procedures provide for direct participation of the largest number of students possible from all the units.

Only full-time students in good standing are eligible to hold office in student organizations. The Student Council is given funds for organizing activities promoting student life and the academic endeavors of the unit. Students on disciplinary probation are not eligible to hold posts in the Student Council.

Through the Student Council the wide-concerns of students are canalized. This body meets regularly with university authorities and receives relevant information about the University development.

Student Participation

The University advocates student participation at all levels and in various forms. A total of 39 students with voice and vote participate in the Academic Senates of the individual campuses. Three students, one graduate and two undergraduate, participate in the University Council. All of these students are elected by the student bodies of their respective instructional units. The procedures for the election of these students provide for direct participation of the greatest number of students possible from all the units.

Student Centers

The instructional units have student centers that meet the needs of the University community: students, faculty, administration, alumni, parents and friends. These centers provide appropriate areas for social, educational, artistic, cultural and recreational activities.

Parking Service and Traffic Rules on Campuses

The Traffic Laws of Puerto Rico are complimented by the Campus' internal rules related to on-campus traffic. All students interested in access to the campuses with a motor vehicle must obtain a permit to these effects. The permit and the payment for parking should not be interpreted as a guarantee of a parking space.

Students are responsible for observing traffic rules and driving properly. The University is not responsible for damage that vehicles parked on the premises may suffer or for articles left inside the vehicles. Any personal or property damage caused by students while driving inside University installations will be their responsibility.

Study Modalities and Learning Experiences

Study by Contract

This option offers students the opportunity of taking courses through a written agreement with a professor which specifies the manner in which students will complete course objectives and content. The agreement stipulates the learning activities that students promise to carry out on an individual basis. Faculty members serve as facilitators in the learning process, evaluate the accomplishments and certify completion of course requirements.

To qualify for a course by contract graduate students must abide by the following guidelines:

1. This modality is available to students taking the course for the first time and who have completed 50% of the total credits required for the graduate degree with a general grade point average of no lower than 3.30.
2. Only those courses whose very nature will permit it can be offered through contract. Laboratories, conference /laboratories, practicums, and courses similar to these cannot be offered by contract. The faculty of the specialization of each Campus will decide which courses may be offered by this modality. In the case of shared programs, the specialized faculty will meet to reach an agreement as to which courses may be offered by this modality.
3. The contract between the student and the professor will require the endorsement of the Department Director.
4. The agreement between the student and the professor will require the approval of the Dean of the Division or the Dean of Studies.

The Department should abide by the following norms:

1. The Study by Contract modality can not be used to repeat a course.
2. Faculty, who have been assigned Study by Contract courses, should have additional office hours reserved for their students.
3. Students in a Master's Program will be able to complete a maximum of two required courses for the degree in the contract modality.

Portfolio

Graduate students have the option of completing a course by using the Portfolio course of study modality. In this modality graduate students present evidence of their experience and achievements which are equivalent to the skills and competencies to be offered in the university course. Candidates offer evidence of their experience and achievements in their Portfolios in such a way that they identify, organize, and establish evidence to support course accreditation.

1. This modality will be available to all students at any moment according to the specifications of the Program.
2. The faculty of each graduate program will determine the courses to be accredited through the Portfolio Modality. Laboratories, Conference/laboratories, practicums and other similar courses will not be offered in this modality.
3. The Dean of the Division or Dean of Studies will approve all students' requests for Portfolio courses, and will ratify a signed agreement between the student and the professor.
4. "Accreditation of Learning Experiences through Portfolio" will be recorded on the official transcript to complete the administrative process.

Graduate students will be allowed to take one third of the total credits of the graduate program in these non-traditional study modalities.

Special Topics

Special topics permit the offering of courses that enrich the student's academic development. These offerings may be made when special circumstances or rare events occur or when an outstanding specialist in the field is available for teaching the course.

Special Topics are governed by the following norms:

1. Special Topics may be offered with a value of from 1 to 6 credits per course.
2. The course must be authorized by the Department Chairperson, Division Dean and, finally, by the Dean of Studies.
3. The title of the course will appear on student transcripts.
4. Special Topics in all disciplines are identified by the combination 597 or 797 in the first three digits (597 Master's degrees; 797 Doctoral degrees).
5. Regular courses described in this catalog may not be taken as Special Topics.

Experimental Courses

Designating courses as "Experimental" permits the temporary offering of new courses not appearing on the official course lists of the University, thus making it possible for these courses to be offered experimentally while being evaluated. Experimental courses may be offered in accord with the following norms:

1. Experimental courses may be offered with a value of from 1 to 6 credits per course.
2. All experimental courses must be authorized by the Director of the Department, the Dean of the Division and, finally, by the Dean of Studies.
3. After an experimental course has been offered for two academic years, the course must be evaluated by the Department or by the Dean of Studies. On the basis of this evaluation, it will be decided if the course shall be made a regular course.
4. The title of experimental courses will appear on student transcripts.

Internship Programs

Students that have approved 12 credits or more and are interested in applying and enriching what they have learned in the classroom through real work experiences related to their specialization may apply to participate in internship programs if they qualify. University credits may be received for the internship according to the criteria established by the program of study faculty.

The faculty of the program or specialization will recommend the credits to be awarded. This experience does not replace the Internship required by the program of studies

Information on internship programs may be obtained from the Dean of Students or the Dean of Studies of each campus

Academic Norms for Masters' Programs

Maintenance of Active Status in Masters' Degree Programs

Students, who have completed all requirements for a Master's Degree, except the comprehensive examinations or the other options and /or thesis must pay each semester, a fee established by the Administration in order to maintain their ties with the University between the completion of course requirements and the awarding of the degree within the established seven-year period.

Residency Requirements for Masters' Programs

A minimum of twenty-one (21) of the required credits for a Master's Degree must be earned in residence at Inter American University.

Institutional Graduation Requirements for Master's Programs

The University establishes as an academic policy that all students demonstrate the capacity to integrate the developed competencies and to apply them to their specialization area as a requirement to obtain the Master's Degree. The University recognizes different ways through which students can demonstrate the mastery of the competencies of their discipline as part of the graduation requirements: thesis, comprehensive examination, integration seminar, research project, creative work and graduation average.

For this reason all master's candidates, of a program that does not require Thesis, must pass one of the following four (4) modalities, as determined by their academic program:

1. Comprehensive Examination

The comprehensive examination will be the option available for those academic programs whose accrediting agencies require this modality. If this is not the case, the academic program will determine if this option will be available for its students.

The comprehensive examination consists of two parts, when applicable. One part will include general material related to the field of studies and the other will examine specific material related to the specialization or program areas. All master level students must be evaluated by the Director of the Graduate Program to determine their eligibility to take the comprehensive examination. The specific number of credits as well as the courses students must have passed will be established according to the requirements of each graduate program. Students will take the entire examination on the first occasion. The minimum passing grade is 75% in each part, when applicable. A student that passes only one of the parts must repeat the part that was failed.

2. Integration Seminar

Three-credit interdisciplinary Integration Seminar (SEMI 697_), in the program specialization, in which general and specific material required for the degree will be presented proportionally to their composition of the totality of credits required for the degree.. If the academic program has an equivalent Integration Seminar, it may be used instead of SEMI 697_. Students will receive a final grade of Pass (P) or Not Pass (NP).

3. Research Project

Students will take a three-credit (3) course where they will carry out a Research Project. Through this Project, students will demonstrate their capability to interpret and integrate theoretical concepts for the practical solution of problems related to their field of studies. Students will have up to one consecutive academic year to complete their Project. The student will receive a final grade of Pass (P) or Not Pass (NP).

4. Creative work

Students will take a three-credit (3) course where they will have to carry out a creative work that demonstrates their mastery of the competencies developed in their specialization area. They will receive a final grade of Pass (A) or Not Pass (NP).

The options of Integration Seminar, Research Project and Creative Work are equivalent to three (3) additional credits for those students whose academic program does not include such options as part of the courses required for the degree.

All students requesting eligibility to fulfill the requirement for the granting of the master's degree must be evaluated before starting the modality required by the program. The number of credits passed as a requisite to become eligible will be established by each specialization.

If students fail in the first attempt to complete this requirement, they will have two (2) additional opportunities to repeat the same option or take another of the available ones. All students interested in more than one specialization within a degree program and who wish that these be certified on their transcript, must take the option chosen in every area for which certification is requested.

The different options will be offered in agreement with the norms in effect for the academic program. In those cases in which the norms of the academic program do not specify the options available, the academic units will determine which they will offer in agreement with their needs.

All applications for one of the options herein described should be made within the time limit stipulated by the academic program to which the student belongs.

The general average to complete the master's degree will be that established in the norms of the academic program. In case the program does not specify this, the average will be that minimum established by University, which is 3.00.

All students must complete their degree within the period of time established for each academic program. In case the program does not specify this, the maximum time will be that established by the University.

Requirements for Satisfactory Academic Progress in Masters' Programs

The University requires that all graduate students demonstrate satisfactory academic progress at the end of each academic year. Such progress will be determined by:

- a. The grade point index.
- b. The relationship between the number of credits attempted and the number of credits passed.
- c. The maximum time to complete the degree.

A. Grade Point Index Requirements:

Master's level students must maintain a minimum cumulative grade point index of:

- a. 2.50 for the first eleven (11) credits completed and
- b. 3.00 from twelve (12) credits completed up to the completion of the degree.
- c. Students of the Business Administration Program must pass all specialization courses with a minimum grade of B.

Completed credits are taken to mean all those credits that correspond to courses in which the grades of A, B, C, F, P, NP, or T, (The T refers to transfer credits from other institutions) have been received.

B. Requirements of Credit Passed in Relation to Credits Attempted:

All students must pass at least 75 percent of the credits attempted.

Attempted Credits - attempted credits are those credits that correspond to courses in which the grades and/or administrative action symbols of A, B, C, F, P, NP, AD, I, W, or T have been received.

Credits passed - credits passed are those credits that correspond to courses in which the grades of A, B, C, P or T have been received.

Probationary Period

All students whose academic progress is not in accordance with the norms set forth in Items A and B will be placed on academic probation for two semesters, three trimesters or eight bimesters.

The academic load for students who are on probation because of their grade point index will be limited to nine (9) credits per semester, six (6) credits per trimester and three (3) per bimester.

Students, who are on probation because of the reasons stated in Item B, will be able to take the maximum number of credits permitted for regular students during the next study period.

Students who, by the end of their probationary period, have not attained the requirements stated in Items A and B will be suspended from their academic program because of deficiency for a period of one semester or two trimesters. However, students who, during the probationary period, pass at least 75 percent of the attempted credits with a minimum grade point index of 3.00 in all completed courses will be able to continue their studies on a probationary status.

At the end of the suspension period, students may be readmitted to the University with academic probationary status for two semesters, three trimesters or four bimesters. However, students who have been dropped twice for academic reasons will be permanently suspended from the program in which they were enrolled.

Students who are on probationary status to achieve the requirements stated in Items A and B retain their eligibility for financial aid.

C. Time Period Requirements:

Students in the Master's Degree Program will have a maximum of seven (7) consecutive calendar years to complete the degree requirements from the date on which they begin to take their first graduate course after admission to the graduate program.

Students also accrue study time for transfer credits. Such time is accumulated at the rate of one (1) year of study for 16 transfer credits. Students, who do not complete their degree within the maximum time period established, may be evaluated to determine if they will be permitted to continue their studies. Students granted time extension to complete their studies will not be eligible for financial aid.

Other Provisions of the Satisfactory Academic Progress Norm

All students who wish to appeal any decision related to the requirements of satisfactory academic progress will have the right to do so before an Appeals Committee appointed by the Chief Executive Officer of the Campus.

After graduating, probationary or suspension periods to which students have been subjected to because of the application of the satisfactory academic progress requirements will not be reflected on their transcripts.

Graduation Requirements for Masters Programs

Students will graduate under the program and the norms established in the Graduate Catalog of the University under which they were admitted or in any subsequent Graduate Catalog at the student's request, but never in a combination of catalogs. Re-admitted students will graduate under the rules of the program in the Graduate Catalog in effect at the time of their readmission or under any subsequent Graduate Catalog.

Graduation Requirements for the Master's Degree

In order to satisfy the Graduation Requirements of the Master's Degree at Inter American University, students must:

1. Be regular students.
2. Have completed the program required courses established in the Graduate Catalog.
3. Obtain a general academic index of 3.00 or more.
4. Obtain an academic index of 3.00 or more in the courses required for their degree.

Expiration Norm for Master's Level Courses

All work with academic credit will be valid for a period of ten (10) years. Courses to which the expiration norm is applied will appear in the student's academic record, but they will not be considered for the general grade point index.

Academic Norms for Doctoral Programs

Maintenance of Active Status in Doctoral Programs

Doctoral students completing the course requirements before passing the comprehensive examination or completing their dissertation must enroll each academic term in the corresponding Dissertation or Continuation of Dissertation course, until the dissertation has been approved.

Residency Requirements for Doctoral Programs

Students in doctoral programs, except those in psychology or education, must complete at least fifteen (15) credits of the corresponding doctoral program in two successive academic terms (two terms or one term and the two summer sessions) at Inter American University. For the doctoral program in psychology, students must complete a minimum of 60 percent of their courses at Inter American University. They must also complete one year of residence as full-time students or its equivalent. The doctoral degree in education does not have a residency requirement.

Comprehensive Examination Requirements for Doctoral and Specialist Programs

All doctoral students must pass a comprehensive examination after having passed at least 30 credits (9 credits must be basic required courses and 21 credits in specialization courses) in the selected doctoral program to be admitted to degree candidacy or in the case of the Specialist Program to meet the requirements for the diploma.

Requirements for Satisfactory Academic Progress for Doctoral Programs

The University requires that all students demonstrate satisfactory academic progress at the end of each academic year. Such progress will be determined by:

- a. The grade point index.
 - b. The relationship between the number of credits attempted and the number of credits passed.
 - c. The maximum time to complete the degree.
- A. The grade point index requirement requires doctoral students to maintain a minimum cumulative grade point index of 3.00 in completed credits throughout their studies.

Completed credits are taken to mean all those credits that correspond to courses in which the grades of A, B, C, F, P, NP, or T, (The T refers to transfer credits from other institutions) have been received.

- B. Requirements of Credit Passed in Relation to Credits Attempted:

All students of Master's programs must pass at least 50 percent of the credits attempted during their first year and 75 percent in the following years.

Attempted Credits - attempted credits are those credits that correspond to courses in which the grades and/or administrative action symbols of A, B, C, F, P, NP, AD, I, W, or T have been received.

Credits passed - credits passed are those credits that correspond to courses in which the grades of A, B, C, P or T have been received.

Probationary Period

All students whose academic progress is not in accordance with the norms set forth in Items A and B will be placed on academic probation for two semesters or three trimesters.

The academic load for students who are on probation because of their grade point index will be limited to nine (9) credits per semester and six (6) credits per trimester.

Students, who are on probation because of the reasons stated in Item B, will be able to take the maximum number of credits permitted for regular students during the next study period.

Students who, by the end of their probationary period, have not attained the requirements stated in Items A and B will be suspended from their academic program because of deficiency for a period of one semester or two trimesters. However, students who, during the probationary period, pass at least 75 percent of the attempted credits with a minimum grade point index of 3.00 in all completed courses will be able to continue their studies on a probationary status.

At the end of the suspension period, students may be readmitted to the University with academic probationary status for two semesters or three trimesters. However, students who have been dropped twice for academic reasons will be permanently suspended from the program in which they were enrolled.

Students who are on probationary status to achieve the requirements stated in Items A and B retain their eligibility for financial aid.

C. Time Period Requirements:

Doctoral students will have a minimum of four (4) academic sessions and a maximum of eight (8) consecutive calendar years to complete the degree requirements of the program from the date of admission.

Students in the Specialist Program will have a maximum of three (3) consecutive calendar years from the date of admission to complete the specialization requirements.

Students in all programs also accrue study time for transfer credits. Such time is accumulated at the rate of one (1) year of study for 16 transfer credits. Students, who do not complete their degree within the maximum time period established, may be evaluated to determine if they will be permitted to continue their studies. Students granted time extension to complete their studies will not be eligible for financial aid.

Other Provisions of the Satisfactory Academic Progress Norm

All students who wish to appeal any decision related to the requirements of satisfactory academic progress will have the right to do so before an Appeals Committee appointed by the Chief Executive Officer of the Campus.

After graduating, probationary or suspension periods to which students have been subjected to because of the application of the satisfactory academic progress requirements will not be reflected on their transcripts.

Expiration Norm for for Doctoral Program Courses

No work for academic credits realized more than ten (10) years before, will be considered for the purpose of obtaining the doctoral degree. The courses to which this expiration norm is applied will appear in students' academic records, but they will not be considered for the grade point index.

Graduation and Diplomas

Application for Graduation

Application for graduation should be made and the graduation fee paid no later than the date specified on the Academic Calendar. Applications may be obtained at the Office of the Registrar and should be returned to that Office after they have been filled out and stamped by the Business Office showing that the non-refundable fee of \$100.00 has been paid. Failure to comply with this procedure may result in the postponement of the granting of the diploma.

The payment of graduation fees of any kind, the listing of the students as candidates for graduation in any document and/or invitation either to the graduation ceremonies or to any other activity related to graduation exercises shall not be interpreted as an offer to graduate or a covenant to that effect. Only the completion of all requirements listed in this catalog or in any other official University directive entitles a student to graduation irrespective of any representation of any kind made by any official of this University.

Candidacy for graduation will be attained by the student after the faculty has determined that the requirements for graduation have been fulfilled. Subsequently, the faculty will present the degree candidates to the President of the University and to the Board of Trustees.

Any alleged error in the evaluation of the application for graduation should be reported to the appropriate Registrar within a week after the receipt of the evaluation.

Candidates for graduation must meet the current regulations and laws to practice their profession.

Diplomas

Diplomas must be claimed by graduates at the Office of the Registrar no later than one year following graduation. The University will not be responsible for diplomas after that date.

Posthumous Degree

In case of death of a student who has fulfilled the graduation requirements, such student may be considered by the appropriate university authorities for the granting of a posthumous degree.

Academic Norms of Compliance

Course Offerings and Scheduling

This Catalog includes the courses that comprise the academic offerings authorized for Inter American University by the Council on Higher Education of Puerto Rico. However, for reasons of enrollment a course may not be offered in one campus, but offered in another. Students have the option of taking courses that form part of their academic program or authorized equivalent courses in another campus that has them scheduled for the academic term of their interest. In addition, there are academic programs that include a component of “Prescribed Distributive Requirements” that, generally, require students to select courses from among a list of courses or options. In these cases, students will select from among those courses that the campus has scheduled. However, students also have the option of taking Prescribed Distributive courses in another campus that has scheduled the courses of their interest in accord with the requirements of their study program.

Special Requirements of Practice and Internship Centers

Some academic programs of the University require students to complete a practice or internship in a real work scenario as part of the degree requirements. These external centers may be state and federal agencies, hospitals, and nongovernmental organizations, among others.

It is students’ responsibility to comply with the external center’s requirements in order to complete their practice or internship. Depending on the practice center, these requirements may be doping tests, HIV tests, an immunization certificate against hepatitis, a health certificate, a negative criminal record, or any other requirement that the institution or practice center may stipulate. If students refuse or are not able to meet any of the requirements, they will be unable to complete their practice or internship and, therefore, will not pass the practice or internship course or meet the graduation requirements of their academic program.

Compliance with Requirements of Regulated Professions and Employment

Some professions have licensing, certification, or professional association requirements or a combination of these in order for a person to practice the profession. Therefore, students and graduates who hope to practice a regulated profession must meet the current requirements of the organization that confers the license, certification, professional association or combination of these before initiating the corresponding proceedings with the agency or organization that applies to their profession. The licensing, certification, professional association requirements or a combination of these may vary from one jurisdiction to another. Therefore, compliance with the requirements in one area does not imply that the student also complies with the requirements of another region. Students are forewarned that the agencies that regulate the professions may change the requirements to practice these at any time.

Some employers of the private sector or government agencies have revalidation, examination or test requirements in order to choose a job. It is for this reason that, in these cases, students or graduates applying for work must meet the additional requirements beyond the studies or diplomas that Inter American University of Puerto Rico offers and confers.

Responsible Conduct in Research Projects

Any student registered in courses that require carrying out research projects or who works in a research project must comply with the laws, regulation and policies applicable to that activity. The student must take the training required by the Institution and by the applicable state and federal regulations, in harmony with the type of research project.

Institutional Review Board (IRB)

The IRB is responsible for seeing to it that the University complies with the state and federal laws and regulations, as well as with the applicable institutional norms and procedures for the protection and rights of the human beings who participate in these projects.

Once a student completes the required training, and before beginning research activities with human beings, such as their identification, recruitment, or the acquisition of information about the participants, and before contacting them and requiring their participation in the project, the student must obtain the approval of the Institutional Review Board (IRB).

Responsible Conduct in Research Projects (RCR)

Any student who works in research projects supported with external resources, or who collaborates as a research assistant to a professor in charge of a research project supported with external funds, must take the training related to responsible conduct in research required by the University and the applicable federal regulations. In addition, the student must provide evidence of having approved these trainings.

Other Research Projects

Research projects that do not involve human beings must also present evidence of compliance with institutional norms and the applicable state and federal regulations.

Warning on Compliance with Copyright Laws and Regulations

The unauthorized distribution or reproduction, by any means, of material protected by the copyright laws and regulations may entail the imposition of civil and criminal sanctions. The *General Student Regulations* contains provisions on academic honesty that cover the protection of this type of material and the breach of the provision may lead to the imposition of disciplinary sanctions.

There are legitimate ways to obtain and distribute protected materials. For more information, click here www.educase.edu/legalcontest.

Discontinuation of Academic Offerings

The University is committed to the renewal of its academic offerings, which includes the expansion, review, modification or discontinuation of academic programs offerings authorized by the Council on Higher Education of Puerto Rico. In case any academic unit of the University decides not to continue offering some academic program, students will have options available to them to complete the degree requirements. Courses on line, study by contract, independent study tutoring or other nontraditional modalities may be among the options.

Graduate Academic Offerings

Master's and Doctoral Programs and Codes

Master's and Doctoral Programs and Codes for Presential Mode

<i>Programs</i>	<i>Codes</i>
Anesthesia (M.S.)	363
Applied Mathematics (M.A.)	381
Biology (M.S.)	
Environmental and Ecological Science	413
Molecular Biotechnology	412
Business Administration (M.B.A.)	
Accounting	315
Finance	314
General	316
Human Resources	327
Industrial Management	328
Managerial Information Systems	361
Marketing	312
Minor Specialization in Knowledge Management	316M
Business Administration (J.D., M.B.A.) Consortium with the School of Law	501
Business Administration for Executives (M.B.A.)	414
Business Education (M.A.)	339
Computer Science (M.S.)	406
Computer Science with Specialization in Networks and Security (M.S.)	409
Criminal Justice (M.A.)	302
Criminal Justice (J.D., M.A.) Consortium with the School of Law	504
Education (Ed.D.)	
Business Education	587
Counseling	530C
Curriculum and Teaching	540C
Educational Management and Leadership	520C
Higher Education	525
Special Education Administration	556
Education (M.A.)	
Counseling	309A
Educational Management and Leadership	402

Occupational Education	357
Physical Education	
Sports Training and Performance	400
Teaching of Physical Education	401
Special Education.....	329
Teaching of Mathematics.....	376
Teaching of Science	343
Vocational Evaluation.....	358
Education in Curriculum and Teaching (M.Ed.)	
Biology	386
Chemistry.....	387
English as a Second Language.....	383
History	384
Mathematics.....	385
Spanish.....	382
Education (M.Ed.)	
Information and Library Science Technology	411
Interdisciplinary Special Education	416
Teaching at the Elementary Level.....	395
Educational Computing (M.A.).....	355
Educational Neuroscience	410
Entrepreneurial and Managerial Development (Ph.D.)	
Human Resources	581
Interregional and International Business.....	580
Environmental Evaluation and Protection (M.S.).....	378
Environmental Sciences (M.S.)	
Environmental Biology.....	362A
Environmental Chemistry	362B
Water Resources and Unit Operations	362C
Fine Arts (M.F.A.)	
Ceramics	372
Drawing	368
Painting	370
Photography	373
Printmaking.....	369
Sculpture	371
History (M.A.).....	336

History of America (Ph.D.)	586
International Business (M.I.B.)	377
International Business (J.D., M.I.B.) Consortium with the School of Law	502
International Business Administration (M.I.B.A.)	
Accounting.....	396
Finance.....	397
Human Resources	399
Marketing.....	398
Labor Relations (M.A.)	322
Labor Relations (J.D., M.A.) Consortium with the School of Law	503
Library and Information Sciences (M.L.S.).....	342
Medical Technology (M.S.)	
Clinical Laboratory Administration	349
Molecular Microbiology	350
Music Education (M.A.) (San Germán Campus)	393
Music Education (M.A.) (Metropolitan Campus)	394M
Nursing (M.S.N.)	
Critical Care Nursing	407
Medical-Surgical Nursing	408
Open Information Computer Systems (M.S.).....	364
Psychological Counseling in Family (M.S.).....	405
Psychology (M.A.)	
Industrial/Managerial Psychology	359
Psychological Counseling	323
School Psychology	324
Psychology (Ph.D.)	
Industrial/Organizational Psychology	585
Psychological Counseling	583
School Psychology.....	584
Social Work (M.S.W.)	
Administration in Social Work	351
Direct Services	390
Teaching English as a Second Language (M.A.)	300
Theological Studies (Ph.D.)	
Christian Education.....	575
Pastoral Theology	576

Professional Certificates and Codes

Clinical Social Work	675
Database Technology and Administration.....	365
Education in Diabetes (Post-Baccalaureate).....	061C
Risk Management in Health Care.....	655

Graduate Programs and Codes for Distance Learning Mode

Business Administration (M.B.A.)	
Accounting.....	315D
General.....	316
Managerial Information Systems	361D
Computer Science (M.S.)	406D
Computer Science with Specialization in Networks and Security (M.S.)	409D
Education in Curriculum and Teaching (M.Ed.)	
Biology	386A
English as a Second Language.....	383A
History	384A
Mathematics.....	385A
Spanish.....	382A
Educational Computing (M.A.).....	355
University Teaching (M.A.)	404

Subject Codes Used in Catalog and in the System

<i>Subject</i>	<i>Subject Codes</i>
Accounting	ACCT
Anesthesia.....	ANES
Biology	BIOL
Business Administration.....	BADM
Business Education.....	BUED
Chemistry	CHEM
Computer Science in Networks and Security	CSNS
Criminal Justice	CJUS
Economics	ECON
Education	EDUC
Education in Diabetes	DIAB
Educational Computing	ECMP
English.....	ENGL
Environmental Evaluation and Protection	ENEP
Environmental Science	EVSC
Finance	FINA
Fine Arts	ARTS
Health, Physical Education and Recreation.....	HPER
History	HIST
Human Resources	HURS
International Business Administration.....	IBAD
International Businesses	INBS
Interregional and International Businesses	INBU
Labor Relations	LARE
Library and Information Sciences.....	LISC
Linguistics	LING
Marketing	MKTG
Mathematics	MATH
Medical Technology	MEDT
Music	MUSI
Music Education	MUED
Music Technology	MUTE
Nursing	NURS
Open Information Computer Systems	COIS
Psychology	PSYC
Quality Organizational Design	QODS
Risk Management in Health Care	RMHC
Social Work	SOWO
Spanish	SPAN
Theological Studies	THEO

Course Codification System

This system consists of a four letter alphabetical section that identifies the discipline, and a four digit numerical section that identifies the course level, the course itself and the course sequence if such exists.

The first digit indicates the level of complexity of the course. This is closely associated with the year of university studies in which students would normally take the course. The digits from 5 to 8 are used to identify the complexity of the graduate courses as follows:

- 5 - Foundation or introductory courses at the Master's level.
- 6 - Advanced Master's Degree courses.
- 7 - Foundation or introductory courses at the Doctoral level.
- 8 - Advanced Doctoral level courses.

The second and third digits are used to identify courses within the same level.

The fourth digit indicates the course sequence of two courses within the same level or indicates that no sequence exists. Sequence is indicated by the digits 1 and 2.

In addition to the meaning ascribed to individual digits, combinations in the first three digits indicate a special type of course as explained below:

- a. Master's Degree
 - 1. The combination 597 is used to identify Special Topics in all disciplines.
 - 2. The combination 691 is used to identify supervised practicums or internships.
 - 3. The combination 697 is used to identify Seminars whose titles are not specified in the catalog.
 - 4. The combination 699 is used to identify the Thesis in all disciplines.
- b. Doctoral Degree
 - 1. The combination 797 is used to identify Special Topics in all disciplines.
 - 2. The combination 891 is used to identify supervised practicums or internships.
 - 3. The combination 899 is used to identify the Thesis in all disciplines.

Masters' and Doctoral Programs

Anesthesia (M.S.)

The program for the Master of Science Degree in Anesthesia has as its goal the preparation of a professional in nursing in anesthesia who will be able to perform activities related to the administration of anesthesia under the supervision of a physician for all types of surgical procedures.

The program aims to develop a professional in anesthesia that will be able to:

1. Acquire knowledge and skills inherent in the specialty that allow the performance of quality anesthesia care.
2. Acquire attitudes, communication and interpersonal relationship skills that facilitate the intervention with the patient, the family and the health team.
3. Utilize the nursing process in problem solving and decision making in the practice of nurse anesthesia.
4. Utilize the results of scientific research to strengthen the quality of anesthesia service.

Admission Requirements

Candidates for admission must:

1. Meet the requirements established in the section "Admission Requirements for Masters' Programs" of this Catalog.
2. Have a Bachelor's Degree in Nursing from an accredited institution.
3. Have a grade point index of 3.00 or above in the last sixty (60) credit hours of academic work.
4. Have a professional license and membership in a professional nursing association.
5. Have at least one (1) year's experience in a critical care setting, operating room or emergency room.
6. Send two (2) letters of recommendation from individuals who have supervised the candidate in the work setting.
7. Be interviewed by an Admissions Committee.
8. Present the following documents:
 - a) A health certificate.
 - b) Vaccination certificates Hepatitis B.
 - c) A Good Conduct Certificate issued by the Puerto Rico Police Department.
 - d) A copy of a professional license and current professional association.
 - e) Updated resume of professional experience.
9. Present in writing a commitment to take the National Certification Examination (NCE) within 120 days after having completed the graduation requirements established in the Graduate Catalog.
10. Pass a test in anatomy and physiology with a minimum of 75%.
11. Pass a test in English with a minimum of 75%.
12. In the case of not obtaining the required minimum score for each test, the student will have to pass the following courses according to each case:
 - a) BIOL 3106: Anatomy and Physiology
 - b) ENGL 397E: Special Topic course in the English area.
13. Have passed a three or more credit course with laboratory in chemistry.

Time Limit to Complete the Degree

Full-time Students	28 months
Part-time students	40 months

Comprehensive Examination

Students may take the comprehensive examination upon completion of at least thirty six (36) credits in specialization courses with a minimum average of 3.00 or after having completed their next to last semester of

studies. Candidates that request the examination will be evaluated and authorized by the evaluation committee for the dates established in the academic calendar.

Graduation Requirements:

1. Complete the graduation requirements for a Master’s Degree established in the Graduate Catalog.
2. Present official evidence of having administered anesthesia in five hundred fifty (550) surgeries in different specialties.

The Arecibo Campus is authorized to offer this Program.

The Program is accredited by the “American Association of Nurse Anesthetists” (<http://www.aana.com>).

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN ANESTHESIA

Specialization Requirements 52 credits

Specialization Requirements - 52 credits

ANES	5105	Biochemistry and Physics	3
ANES	5110	Introduction to Anesthesia	2
ANES	5111	Pathophysiology I: Cellular and Circulatory	3
ANES	5112	Pathophysiology II: Blood, Cardiovascular, Respiratory and Renal	3
ANES	5113	Pathophysiology III: Acid-Base Balance Endocrine and Gastrointestinal System	3
ANES	5121	Principles of Anesthesia I	2
ANES	5122	Clinical Practice on Principles of Anesthesia I	1
ANES	5131	Pharmacology Anesthetics I	3
ANES	5132	Pharmacology Anesthetics II	3
ANES	5221	Principles of Anesthesia II	2
ANES	5222	Clinical Practice on Principles of Anesthesia II	2
ANES	5307	Regional Anesthesia	2
ANES	5331	Principles of Anesthesia III: Obstetrics and Pediatrics	2
ANES	5332	Clinical Practice on Principles of Anesthesia III	2
ANES	5431	Principles of Anesthesia IV: Cardiothoracic and Neurological	2
ANES	5432	Clinical Practice on Principles of Anesthesia IV	2
ANES	5497	Trends and Controversies in Anesthesiology	2
ANES	6390	Clinical Analysis	1
ANES	6395	Research Process	3
ANES	6397	Administration and Supervision	2
ANES	6911	Integrated Supervised Practice I	2
ANES	6912	Integrated Supervised Practice II	2
ANES	6970	Seminar	3

Applied Mathematics (M.A.)

The Master of Arts in Applied Mathematics Program develops professional mathematicians in the theoretical base and in applications of the main areas of this discipline to assist them fulfill their goal of becoming more creative and articulate in the performance of their societal functions. The Program prepares students for employment in industry, the government and in commerce, in areas such as statistics, scientific computation, insurance, investments, and in the formulation of mathematical and other models.

The course of study of this Program includes a core component consisting of calculus, algebra, discrete mathematics, probability and mathematical computation and another component of elective courses in one or several of the areas of applied mathematics such as computer science, mathematical models of science, statistics, operational research, economics and insurance mathematics. A total of 33 credits is required. The program is

accessible to students of any major who have approved courses equivalent to Calculus II, Linear Algebra and Structured Programming at the baccalaureate level with a minimum grade of "C".

Admission Requirements

To be admitted to the Master of Arts Program in Applied Mathematics, students must meet the admission requirements for Graduate Programs as established in the Graduate Catalog in effect at the moment of admission. In addition they must:

1. Present the results of the "Examen de Admisión a Estudios de Posgrado (EXADEP)" or the Graduate Examination Record (GRE).
2. Have passed the following courses or their equivalent at the baccalaureate level in a recognized university, with a minimum grade of "C":

Calculus II
Linear Algebra
Structured Programming

Graduation Requirements

All students who aspire to obtain the of Master of Arts degree in Applied Mathematics, in addition to meeting all the requirements of Comprehensive Examinations and Other Options that appear in the current Graduate Catalog, must satisfy the following specific requirement:

1. Pass the comprehensive examinations or develop satisfactorily a Creative Project, as outlined in the course MATH 6900.

The San Germán Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN APPLIED MATHEMATICS

Core Course Requirements	18 credits
Prescribed Distributive Requirements	12 credits
Degree Project (Optional)	3 credits
Total	30 or 33

Core Course Requirements - 18 credits

MATH 5100	Intermediate Calculus	3
MATH 5200	Computational Mathematics	3
MATH 5400	Probability	3
MATH 5500	Advanced Discrete Mathematics	3
MATH 5800	Topics in Abstract Algebra	3
MATH 6400	Advanced Mathematical Statistics	3

Prescribed Distributive Requirements - 12 credits

Four (4) courses selected from the following:

MATH 5900	Mathematical Logic and Applications	3
MATH 6100	Introduction to Real Analysis	3
MATH 6150	Mathematical Models for the Sciences	3
MATH 6200	Graphs and Applications	3
MATH 6300	Actuarial Mathematics and Risk Theory	3
MATH 6350	Mathematical Methods in Research	3
MATH 6600	Econometrics and Finance Models	3

MATH	6800	Cryptography	3
MATH	6810	Information Theory and Codification	3

Optional requirement of Graduation

MATH	6900	Creative Project (Optional)	3
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Biology (M.S.)

The Master of Science Degree in Biology offers two specializations: Molecular Biotechnology and Environmental and Ecological Sciences. The emphasis of the Program is to present an interdisciplinary curriculum focused on scientific reasoning to prepare students for work in the field of Biology dealing with the molecular aspects of biotechnology, ecology or the environmental sciences.

Graduates of this program will be able to emit technical and scientific judgments related to their area of specialization and to general aspects of Biology. They will obtain experience in the use and application of available technologies to understand and to answer questions of a scientific nature. The program will reinforce ethical aspects in research and will promote the development of an integral knowledge of biological sciences on which the student's specialization is based.

Admission Requirements

In addition to meeting the admission requirements established in this Catalog, students must:

1. Have a Bachelor's degree in Natural Sciences or related areas.
2. Have passed the bachelor's level, a minimum of three (3) credits in each of the following courses or equivalents:
 - a. Cellular-Molecular Biology
 - b. Statistics
 - c. Calculus
3. Present two (2) letters de recommendation, preferably from Natural Science professors.
4. Present evidence of the results of the Graduate Record Examination (GRE) or the Examen de Admisión a Estudios de Posgrado (EXADEP).

The Bayamón Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN BIOLOGY

Core Course Requirements	11 credits
Specialization Requirements	12 credits
Prescribed Distributive Requirements	<u>12</u> credits
Total	35

Core Course Requirements - 11 credits

BIOL	5001	Integrated Biology I	3
BIOL	5002	Integrated Biology II	3
BIOL	6971	Seminar I	1
BIOL	6972	Seminar II	1
EVSC	5020	Biostatistics	3

Specialization in Molecular Biotechnology (Biology)

Requirements for the Specialization in Molecular Biotechnology - 12 credits

Required Course

BIOL	6005	Biotechnology and Bioinformatics	3
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Select three (3) courses from the following:

BIOL	6003	Molecular Immunology	3
BIOL	6004	Molecular Genetics	3
BIOL	6006	Biomolecular Techniques Laboratory	3
BIOL	6007	Plant Biotechnology	3
BIOL	6008	Advanced Virology	3
BIOL	6009	Bioremediation	3
BIOL	6010	Protozoology	3
BIOL	6013	Environmental Microbiology	3
BIOL	6014	Bacterial Diagnosis	3

Specialization in Environmental and Ecological Sciences (Biology)

Requirements for the Specialization in Environmental and Ecological Sciences - 12 credits

Required Course

BIOL	6104	Population Ecology	3
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Select three (3) courses from the following:

BIOL	6006	Biomolecular Techniques Laboratory	3
BIOOL	6007	Biotechnology in Plants	3
BIOL	6009	Bioremediation	3
BIOL	6013	Environmental Microbiology	3
BIOL	6103	Tropical Ecology of Islands	3
BIOL	6105	Island Biogeography	3
BIOL	6107	Pollution and Ecological Systems	3
BIOL	6108	Environmental Physiology of Animal	3

Prescribed Distributive Requirements - 12 credits

Students will have two (2) options to complete the 12 credits of Prescribed Distributive Courses.

Option A: with a Research Project (Thesis)

Students must pass 12 credits in courses BIOL 6991, 6992 and 6993.

Option B: without a Research Project (Thesis)

Students must pass 12 additional credits of this program; six (6) of these credits will be in courses of their specialization.

Business Administration (M.B.A.)

A program of studies leading to the Master's Degree in Business Administration is offered. The curriculum has a General Program and six specializations: Accounting, Finance, Human Resources, Industrial Management, Marketing, and Managerial Information Systems.

Students desiring a second specialization in the Master's Degree in Business Administration must take fifteen (15) credits in addition to those required for the first specialization. They must also pass the Integration Seminar corresponding to the second specialization.

The curriculum for the Master's Degree in Business Administration aims to provide a broad base and a solid preparation in management and organization of business activities. In addition, the Program gives students an opportunity to specialize in one of the many functional areas of this discipline.

The core courses required of all students stress the general principles and training applicable to all organizations. They cover a wide spectrum of disciplines such as decision theory, management processes, application of quantitative analysis to management problems, contributions of the behavioral sciences to functional areas of business management and relations of business organizations to socio-economic and political environments. Reference to special problems of business management, in areas like Puerto Rico and the Caribbean, is an additional objective.

For the Master's Degree in Business Administration, students must take 42 graduate credits, 15 of which must be in the area of specialization. The 15 specialization credits include the corresponding Integration Seminar. If students do not choose a specialization, they must select 18 credits from the specialization and elective courses.

Admission Requirements for the Master's Degree in Business Administration

Students requesting admission to the Master's Degree in Business Administration Program must:

1. Meet the requirements established in the section "Admission Requirements for Masters' Programs" of this Catalog.
2. Have a Bachelor's degree in Business administration (BBA), or
3. Have a Bachelor's degree in another discipline and present evidence of having passed the following courses at the baccalaureate level with a minimum grade of C or its equivalent:

Economics (Micro and Macro)	6 credits
Statistics (descriptive and inferential)	6 credits
Accounting I and II	6-8 credits

In addition to the requirements listed above, students who choose anyone of the following specializations must have passed the following courses at the baccalaureate level with a minimum grade of C:

- Accounting
 - Intermediate Accounting I and II (or their equivalents)
- Managerial Information Systems
 - Introductory course in the area of computers (or its equivalent)
 - A course in computer programming (or its equivalent)

Students who have not taken all of the required courses may request a provisional admission as established in this Catalog.

4. Present the results of the "Examen de Admisión a Estudios de Posgrado (EXADEP)" or the Graduate Examination Record (GRE), or their equivalent.

Requirements for a Minor Specialization in the Graduate Business Administration Programs

A minor specialization will consist of a minimum of nine (9) credits and a maximum of twelve (12) credits, according to the applicable academic program. All students may opt for a minor specialization within their graduate program, as specified in this Catalog.

To obtain a minor specialization that is not within their study program, students must meet the requirements established in this Catalog in the section Student Financial Aid, as well as with the academic norms of the program to which this minor specialization belongs.

If students want the minor specialization to appear on their transcripts, they must formally request this by means of the appropriate form. The declaration of a minor specialization requires the approval of the Academic Adviser and the Directors of the appropriate Departments. This declaration must be made prior to the application for graduation. Students must make sure they meet the academic progress norms and the minimum time required to complete their study program. A minimum academic index of 3.00 in the minor specialization is required for certification.

Graduation Requirements

For graduation, students must:

1. Have regular student admission.
2. Have a grade point index not less than 3.00.
3. Comply with the satisfactory academic progress norm at the graduate level.
4. Have approved the Integration Seminar in Entrepreneurial Strategies.
5. Have approved the Integration Seminar corresponding to their specialization.

The Aguadilla Campus is authorized to offer the specializations in Industrial Management, Accounting, Finance, Human Resources, Managerial Information Systems and Marketing. The Arecibo Campus is authorized to offer the specializations in Human Resources, Accounting, and Finance. The Bayamón Campus is authorized to offer the specialization in Human Resources.

The Metropolitan and San Germán campuses are authorized to offer all specializations of this Program, except the specialization Managerial Information Systems which is offered only by the San Germán Campus. In addition, the Metropolitan Campus is authorized to offer the General Program through Internet, and the San Germán Campus is authorized to offer the Accounting and the Managerial Information Systems specializations through Internet.

The Fajardo Campus is authorized to offer the specializations in Marketing and Managerial Information Systems. In addition, it is authorized to offer the General Program by the class attendance mode and online.

The Guayama Campus is authorized to offer the specialization in Marketing.

REQUIREMENTS FOR THE MASTER OF BUSINESS ADMINISTRATION DEGREE

Core Course Requirements	24 credits
Specialization Requirements	15 credits
Prescribed Distributive Requirements	<u>3</u> credits
Total	42

Core Course Requirements - 24 credits

BADM	5010	Quantitative Methods in Decision Making	3
BADM	5020	Managerial Economics	3
BADM	5040	Accounting for Managers	3
BADM	5070	Public Policy toward Business	3
BADM	5090	Marketing Management	3
BADM	5100	Organizational Theory and Behavior	3
BADM	5190	Managerial Finance I	3
BADM	6500	Integration Seminar in Entrepreneurial Strategies	3

Specialization Requirements - 15 credits

Fifteen credits in the selected area:

Specialization in Accounting (M.B.A.)

Required Course

BADM	697A	Integration Seminar in Accounting	3
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Four of the following courses:

BADM	6180	Advanced Cost Accounting	3
BADM	6300	Advanced Auditing	3
BADM	6310	Contemporary Aspects of Accounting	3
BADM	6320	Advanced Federal Taxes	3
BADM	6330	Advanced Puerto Rican Taxes	3

Specialization in Finance (M.B.A.)

Required Courses

BADM	6190	Managerial Finance II	3
BADM	6230	Investments	3
BADM	697B	Integration Seminar in Finance	3

Two of the following courses:

BADM	6150	Public Finance and Fiscal Policy	3
BADM	6200	International Business Finance	3
BADM	6220	Monetary Theory and Policy	3
BADM	6240	Financial Markets	3

Specialization in Human Resources (M.B.A.)

Required Courses

BADM	6070	Human Resources Administration	3
BADM	697C	Integrating Seminar in Human Resources	3

Three of the following courses:

BADM	6020	Training, Development and Administration of Human Resources	3
BADM	6080	Salary Administration	3
BADM	6090	Supervision and Leadership	3
BADM	6910	Practice in Human Resources	3
LARE	5010	Collective Bargaining in the Public and Private Sector	3
LARE	5400	Labor Legislation	3

Specialization in Industrial Management (M.B.A.)

Required Courses

BADM	6100	Introduction to Industrial Management	3
BADM	697D	Integration Seminar in Industrial Management	3

Three of the following courses:

BADM	6110	Work Measures and Methods of Improvement	3
BADM	6120	Analysis of Production Systems	3
BADM	6130	Production Planning and Control	3
BADM	6140	Industrial Plant Management	3
BADM	6170	Advanced Methods in Planning Production and Control	3
BADM	6290	Logistics of Transportation Systems	3
BADM	6295	International Operations	3

Specialization in Managerial Information Systems (M.B.A.)

Required Courses

BADM	5060	Management Information Systems	3
BADM	6030	Database Systems	3
BADM	6040	System Analysis and Design	3
BADM	6050	Internet: Superhighway of Information	3
BADM	6957	Integration Seminar in Information Systems	3

Prescribed Distributive Requirements for this Specialization - 3 credits

One course from the following:

BADM	6250	Telecommunications and Networks	3
BADM	6260	Advanced Programming	3
BADM	6270	Decision Support and Expert Systems	3
BADM	6280	Management of Information Technology	3

Specialization in Marketing (M.B.A.)

Required Courses

BADM	6350	Strategic Marketing	3
BADM	697E	Integration Seminar in Marketing	3

Three of the following courses:

BADM	6160	Marketing Research	3
BADM	6360	Marketing Communications	3
BADM	6370	Sales Forecasting and Analysis	3
BADM	6380	Consumer Behavior	3
BADM	6390	Global Marketing	3
BADM	6550	Seminar in Current Topics in Marketing	3

General Program (M.B.A.)

Students interested in pursuing the General Program must approve, in addition to the core courses in Business Administration; eighteen (18) credits from the other specialization courses or the elective courses from the Graduate Program in Business Administration, International Business Administration, Labor Relations, or from other related programs with the approval of their academic advisor.

Prescribed Distributive Requirements - 3 credits

Students are required to select three (3) credits from the following courses, from any specialization courses or from courses related to any other area in Business Administration, with the approval of their academic advisor, except the students in the Managerial Information Systems program, who will take the prescribed distributive courses for that specialization.

BADM	5030	Entrepreneurial Research Methodology	3
BADM	5060	Management Information Systems	3
BADM	6060	Banking Administration	3
BADM	6210	Financial Administration of Retirement Plans	3
BADM	6700	Global Business	3
BADM	6945	Small Business Institute Seminar	3

Minor Specialization in Knowledge Management

The Minor Specialization in Knowledge Management is designed for the graduate student of Business Administration. This minor specialization is aimed to develop the knowledge and skills in the areas of management and administration of intellectual capital, as assets of the company, contributing to its profitability.

The Metropolitan Campus is authorized to offer this minor specialization.

Requirements for the Minor Specialization in Knowledge Management - 9 credits

BADM	5470	Foundations of Knowledge Management	3
BADM	6430	Administration of Intellectual Capital	3
BADM	6470	Strategies of Knowledge Management	3

Business Administration for Executives (M.B.A.)

The Master of Business Administration Program for Executives (Executive MBA) has the mission of developing business leaders in the Puerto Rican and global community. These leaders will be able to meet the highest standards of excellence and will acquire up-to-date knowledge and personal and professional competencies to improve their directive effectiveness and the competitiveness of their organizations. This accomplishment will be achieved together with ethical principles for the benefit of the community and society. The Master of Administration Degree for Executives or Executive MBA is the highest level program oriented towards the formation of business executives.

The Metropolitan Campus is authorized to offer this Program.

Admission Requirements

Students seeking admission to the Master in Business Administration Program for Executives must meet the admission requirements established for Masters' Programs in the current Graduate Catalog. In addition, they must meet the following specific Program requirements:

1. Occupy or have occupied a managerial position at the top or middle levels and have a minimum of five years of experience.
2. Have at least eight years of professional work experience.
3. If the student is in one of the following situations: a) has a Professional License issued by an entity of the Commonwealth of Puerto Rico, b) has a Professional License of some state of the United States or of a foreign State that is properly legalized and related to Business Administration disciplines or, c) has a professional certification issued by a recognized entity in business disciplines, will be granted, at the time of admission, two years of work experience for each license or professional certification.

Graduation Requirements

In addition to fulfilling the graduation requirements of the Graduate Catalog, students of this Program must meet the following requirement.

1. Pass the seminars of the specialization INBS 6970 and BADM 697F with a minimum grade of B.

REQUIREMENTS FOR THE MASTER IN BUSINESS ADMINISTRATION DEGREE FOR EXECUTIVES (EXECUTIVE MBA)

Specialization Requirements

36 credits

Specialization Requirements – 36 credits

BADM	5060	Management Information Systems	3
BADM	5140	Legal and Social Environment in Business	3
BADM	6450	Decision-Making	3
BADM	6500	Integration Seminar on Entrepreneurial Strategies	3
BADM	6780	The Manager in an International Economy	3
BADM	6971	Seminario de Responsabilidad Social Empresarial	3
BADM	697F	Seminario Integrador Empresarial para Gerentes	3
INBS	6970	Seminar: Business Environment and Administrative Practices of the Caribbean and Latin America	3
LARE	6430	New Working Patterns and Personal Values	3
QODS	5010	Strategic Management: Innovation and Change	3
QODS	6020	Accounting as a tool for Executive Action	3
QODS	6035	Voice of the External Client	3

Course BADM 697F (Integration Enterprise Seminar for Managers) replaces the Integration Seminar that this Catalog includes in Institutional Graduation Requirements for Masters' Programs.

Business Education (M.A.)

The Masters Program in Business Education is designed to prepare teachers and administrators to teach and supervise Business Education Programs. Its goal is to develop personnel capable of strengthening the teaching-learning process. It also aims to develop in students the skills needed to prepare and capacitate office personnel so it may respond to the needs of a technological society. In addition, the Program is designed to promote the necessary competencies in the area of business education that will permit students to assume leadership roles in developing educational programs of high academic quality and to be agents of change.

The Program leads to the Masters of Arts Degree in Business Education through specialized courses in the administration of office systems at the secondary and postsecondary levels.

In addition to meeting the requirements established in the section "Admission Requirements for Masters' Programs" of this Catalog, candidates for admission to this Program must:

1. Have passed the following undergraduate courses or their equivalents:

EDUC	2021	History and Philosophy of Education
EDUC	2031	Developmental Psychology
GEHS	2020	Global Vision of the Economy
or		
MAEC	2212	Economic Principles (Macro)
MAEC	2221	Basic Statistics I
2. Possess a Bachelor's Degree in Business Education, Office Systems Administration, or Business Administration from an accredited university.
3. Submit two letters of recommendation from professionals in the field.

The Metropolitan and San Germán campuses are authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN BUSINESS EDUCATION

Core Course Requirements	12 credits
Specialization Requirements	15 credits
Prescribed Distributive Requirements	9 credits
Total	*36 to 39

*Students who take course BUED 6970 Integrating Seminar to meet the Comprehensive Examination Requirements and other Masters Program Options must complete a total of 39 credits.

Core Course Requirements - 12 credits

EDUC	5111	Educational Research I	3
EDUC	6046	Curriculum Development	3

Students will select six (6) credits from the following courses:

EDUC	5013	Sociological Foundations of Education	3
EDUC	5024	Psychological Foundations of Education	3
EDUC	6058	Legal Aspects of Education	3
EDUC	6079	Educational Supervision	3

Specialization Requirements - 15 credits

Students will take fifteen (15) credits from the following courses:

BUED	5010	Methodology in the Teaching of Information Processing Courses	3
BUED	5015	Teaching Strategies for Enterprise Development, Business Administration and Marketing	3
BUED	5020	Methods of Teaching Accounting	3
BUED	5030	Methodology in the Teaching of Shorthand and Transcription or other System of Abbreviated Writing	3
BUED	5035	Computers in the Teaching of Business Education	3
BUED	5040	Curricular Innovations in Teaching	3
BUED	5050	Fundamentals of Distance Learning	3
BUED	5060	Preparation of Materials for Distance Learning	3
BUED	5070	Interface Design for Instructional Resources through the Web	3
BUED	6000	Administration and Supervision in Business Education	3
BUED	6010	Curricular Design in Business Education	3
BUED	6020	Assessment, Measurement and Evaluation in Business Education	3
BUED	6050	Strategies for Office Personnel Training	3
BUED	6910	Internship in teaching Business Education at the Secondary and/or Postsecondary Level	3

Prescribed Distributive Requirements - 9 credits

Student will select one of the certification options or will take the credits in courses from other related masters programs.

Students who wish to obtain the Vocational Supervisor certification will take the following nine (9) credits:

BUED	5000	Administration of Vocational and Technical Programs	3
BUED	6911	Supervised Practice in Business Education	3

BADM	6440	Advanced Personnel Administration	3
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Students who wish to obtain the certification as a Business Education teacher will take the following nine (9) credits:

EDUC	5740	Education of Exceptional Students	3
EDUC	6024	Educational Measurements and Evaluation	3
EDUC	6057	Teaching Models and Strategies	3

Courses EDUC 5013 and 5030 are designed for students whose Bachelor's Degree is in Office System Administration or Office Systems and who wish to obtain the teaching license.

It is recommended that students who have successfully completed a course in Methodology in the Teaching Shorthand and Transcription at the Bachelor's level take course BUED 5035 instead of BUED 5010.

It is recommended that students who have passed a course in Methods in Teaching Shorthand and Transcription at the Bachelor's level take one from the following courses: BUED 5000, 5020 or 5040.

Course BUED 6910 is designed for students whose Bachelor's Degree is in Office Systems Administration or Office Systems who wish to obtain the teacher's license.

NOTE: Students will follow the required course sequence, according to the guidance they receive from the program director or the assigned advisor.

Students interested in obtaining a certificate as teacher, supervisor or institution vocational director must take the courses required by the Teachers Certification Regulation of the Department of Education that is in effect at the date of graduation.

Students not interested in obtaining the teacher's license of the Department of Education will take the nine (9) credits from the prescribed distributive requirements in any masters program related to the fields of Education, Educational Computation or Business Administration, with the proper guidance and approval of the program director or the assigned advisor.

Computer Science (M.S.)

The program of studies for this degree has been designed to provide students a real option to the immediate demands of the labor market. It represents a formal higher education alternative in the computer field, with emphasis on programming at the master's level, through the most sophisticated and accessible networks in any company.

The program follows the path of a masters without specializations, which should be developed according to the technological advances. This program aspires to prepare graduates as specialists in the distributed system area, software engineering specialized in communication networks, operating systems and high-level languages. These capacities will permit the graduates to be incorporated into the industrial sector as constituents capable of promoting the adoption of new technologies as well as developing basic or applied research with the aim of continuing doctoral studies.

Admission Requirements

In addition to fulfilling the admission requirements for master's degree studies appearing in this Catalog, candidates desiring to enter this Program must meet the following requirements:

1. Have completed a bachelor's degree in: (a) Computer Programming or (b) Information Systems and have passed 12 credits from the following courses with a minimum grade of C:
 - a. C++
 - b. Visual Programming
 - c. Programming Languages
 - d. Discrete Methods
 - e. Operating Systems
 - f. Systems Analysis and Design
 - g. Artificial Intelligence

2. The bachelor's degree in Information Systems may be substituted by a Bachelor of Science or Business Administration with a minimum of 12 credits in Computers, including those mentioned in requirement number one above.
3. Have obtained a minimum average of 2.80 in the major and 2.50 in the grade point average at the bachelor's level.

The Fajardo Campus is authorized to offer this Program through both classroom and distance learning.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN COMPUTER SCIENCE

Specialization Requirements		31 credits
Prescribed Distributive Requirements		<u>6</u> credits
	Total	37

Specialization Requirements - 31 credits

COMP	5100	Algorithms Design	3
COMP	5110	Automata Theory and Formal Languages	3
COMP	5120	Artificial intelligence	3
COMP	5325	Programming Languages	3
COMP	5510	Software Development and Design	3
COMP	5525	Seminar I	3
COMP	6300	Networks I	3
COMP	6315	Operating Systems	3
COMP	6400	Networks II	3
COMP	6970	Integrated Seminar	4

Prescribed Distributive Requirements

Students will select one course from the following:

COMP	6010	Operations Research	3
COMP	6200	Multimedia and Hypermedia	3
COMP	6250	Communication Protocols	3

Students will select one course from the following:

COMP	6500	Database Workshop	3
COMP	6525	Programming Workshop	3
COMP	6615	Seminar on Computation and Society	3
COMP	6650	Administration and Function of Information	3

Computer Science with Specialization in Networks and Security (M.S.)

The Masters Program in Computer Sciences with Specialization in Networks and Security aims to prepare professionals in the areas of analysis, design, implementation and development of efficient and secure computer network systems. This Program seeks to have students attain advanced, updated and research knowledge in the new technologies.

As part of the philosophy of the program, it is expected that a professional (graduate) possessing the following competencies and characteristics will be prepared as:

1. An authority in the theories, principles, techniques, methods and technological trends in the area of networks and security of computerized systems;
2. Qualified to apply research methodologies for problem solving;
3. An authority in the problems that will affect the operation of computer networks; and
4. Qualified to apply research methodologies for problem solving and analysis of situations.

Admission Requirements

In order to enter the Masters Program in Computer Science with a Specialization in Networks and Security students must meet the admission requirements of Inter American University of Puerto Rico, as established in the current Graduate Catalog, and in addition, must have passed the following courses or their equivalents:

- a) Information and Computer Literacy
- b) Basic Statistics
- c) Introduction to Data Communication
- d) Network Management I and II
- e) Computerized Systems Analysis and Design

Graduation Requirements

In addition to passing a comprehensive examination as established in the current Graduate Catalog, students must:

1. Comply with the of satisfactory academic progress norms at the graduate level.
2. Have completed a minimum of 30 credits of the specialization.
3. Submit a request for the comprehensive examination 30 days before the date on which the examination is administered, together with evidence of having paid the comprehensive examination fee.

The Guayama Campus is authorized to offer this Program through both classroom and distance learning.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN COMPUTERS WITH SPECIALIZATION IN NETWORKS AND SECURITY

Specialization Requirements		33 credits
Prescribed Distributive Requirements		<u>6</u> credits
	Total	39

Specialization Requirements - 33 credits

CSNS	5100	Network Analysis and Design	3
CSNS	5110	Principles of Research	3
CSNS	5121	Routing Technologies I	3
CSNS	5131	Switchboard Technologies I	3
CSNS	5222	Routing Technologies II	3
CSNS	5232	Switchboard Technologies II	3
CSNS	6100	Firewalls	3
CSNS	6210	Design, Implementation and Assessment of Network Security	3
CSNS	6110	Security and Forensic Computing	3
CSNS	6220	Hacker Detection Systems	3
CSNS	6330	Research Project	3

Prescribed Distributive Requirements - 6 credits

CSNS	5210	Internet Protocol Version 6	3
CSNS	6120	Remote Access Networks	3
CSNS	6310	Solutions Network Malfunction Techniques	3
CSNS	6320	Satellite Communications Systems	3

Criminal Justice (M.A.)

The Masters of Arts in Criminal Justice aims to provide an education of excellence to students interested in the field of Criminal Justice, so that they can perform effectively in public, private, state and federal agencies.

The Program aims to prepare the student to do research in the field of criminal justice; respond to the need for maintaining highly qualified professionals that master the competencies required in this discipline; and to train professionals to get involved with the different populations and problems that society faces.

The Aguadilla, Metropolitan and Ponce campuses are authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN CRIMINAL JUSTICE

Specialization Requirements	18 credits
Prescribed Distributive Requirements	9 credits
Elective Courses	<u>6 credits</u>
Total	*33-36

Specialization Requirements - 18 credits

CJUS	5010	Law and Society	3
CJUS	5055	Criminology	3
CJUS	5060	Social Scientific Research Methodology	3
CJUS	5070	Social Scientific Research Applied to Criminal Justice	3
CJUS	5080	Public Policy and State and Federal Justice Systems	3

Select one course from the following:

CJUS	5237	Juvenile Justice	3
CJUS	5613	Addiction, Criminality and Rehabilitation	3

Prescribed Distributive Requirements - 9 credits

Select nine (9) credits from the following courses:

CJUS	5023	Elements of Criminal Justice	3
CJUS	5299	Law and Correction	3
CJUS	5310	Criminal Procedure and Evidence Law	3
CJUS	5320	Constitutional and Administrative Rights	3
CJUS	5410	White Collar Crime	3
CJUS	5420	Forensic Science	3
CJUS	5430	Interview and Interrogation Techniques	3
CJUS	5510	Alternate Methods of Adjudication	3
CJUS	5520	Management Aspects in Public and Private Security	3
CJUS	5900	Special Assignment	3
CJUS	5970	Special Topics	3

Elective Courses - 6 credits

*Students of the Master's Program in Criminal Justice may choose between two options to fulfill the requirements of their academic degree.

1. A comprehensive examination that those students who have approved the 33 credits listed above may request. These students will graduate with a total of 33 credits.
2. Enroll in the course entitled Integration Seminar (CJUS 6970). This entails 3 credits; therefore the students selecting this option will graduate with a total of 36 credits. This option replaces the comprehensive examination.

Education (M.A., M.Ed. and Ed.D.)

Master of Arts Program in Education

The Master of Arts Program offers graduate students a wide variety of specializations. Applicants for admission to these programs, besides meeting the admission requirements for studies at the Master's level, must be capable of reading and interpreting professional matter in both Spanish and English and possess the ability to express themselves correctly in writing in one of these languages. This ability will be determined through an examination or other appropriate means. For specialization in a teaching field, the applicant must have an undergraduate major in the field of specialization.

Comprehensive Examination

Students may take the comprehensive examination or one of the other options explained in this Catalog after having passed all of their program's foundation and specialization courses.

Specialization in Counseling (M.A.)

The specialization in Counseling is geared towards the formation of outstanding professionals who will be able to serve efficiently in organizations, corporations, institutions, government agencies, educational institutions or in dealings with the public in general.

This Program has the following goals:

1. To respond to the need of preparing counselors who master the required professional competencies.
2. To equip graduates with the skills required for intervening with different groups and problems encountered in contemporary society.
3. To develop counselors committed to their profession and to their personal and professional growth.

In addition to meeting the admission requirements for Master Degree studies established by the University, candidates for admission to the Master of Arts in Education with a Specialization in counseling program must satisfy the following requirements:

1. A course in statistics.
2. A Bachelor's Degree in Education or a Bachelor's Degree and at least six (6) credits in Foundations of Education.
3. A course in psychology.
4. An interview with an Admissions Committee composed of at least two fulltime faculty members.

The Arecibo, Metropolitan and San Germán campuses are authorized to offer this Specialization.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATION WITH A SPECIALIZATION IN COUNSELING

Foundation Requirements	9 credits
Specialization Requirements	27 credits
Elective Courses	<u>3 credits</u>
Total	*39-42

Foundation Requirements - 9 credits

EDUC	5111	Educational Research I	3
EDUC	5024	Psychological Foundations of Education	3
EDUC	5035	Philosophical Values and Perspectives in Contemporary Education	3

Specialization Requirements - 27 credits

EDUC	5370	Principles of Counseling	3
EDUC	6220	Developmental Process	3
EDUC	6400	Student Assessment	3
EDUC	6420	Life and Career Development	3
EDUC	6451	Theories of Counseling	3
EDUC	6452	Individual Counseling Skills	3
EDUC	6470	Group Counseling Skills	3
EDUC	6472	Theory of Family and Couple Counseling	3
EDUC	6911	Practicum	3

*Students that take the course EDUC 697A (Integration Seminar) to meet the requirements of the Comprehensive Examinations and Other Options for Masters’ Programs established in this Catalog will take a total of 42 credits.

Students having two or more years experience as professional counselors must present evidence to be evaluated for exemption from the Practicum. If exempted, they will take three (3) graduate credits of their choice.

Specialization in Educational Management and Leadership (M.A.)

The specialization in Educational Management and Leadership is geared towards the formation of outstanding professionals in the field of Management and Leadership in educational institutions and programs. The specialization responds to the need for developing educational managers and leaders who show mastery in the solution of problems inherent to the contemporary professional environment. This specialization is directed towards the study of the fundamental theories and the use and promotion of scientific research. It also aims to integrate technology with practice, apply the highest ethical principles to the profession and provide participation in practical experience in educational scenarios.

In addition to meeting the admission requirements for Master Degree studies established in this Catalog, candidates for admission to this Program must satisfy the following requirements:

1. Bachelor’s Degree in Education or a Bachelor’s Degree and Teacher Certification or
2. A Bachelor’s Degree, three credits in Teaching Methodology and six (6) additional credits in Education
3. Three (3) credits in statistics are also required.

The Aguadilla, Arecibo, Barranquitas, Fajardo, Metropolitan and San Germán campuses are authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATION IN EDUCATIONAL
MANAGEMENT AND LEADERSHIP

Foundation Requirements	9 credits
Specialization Requirements	12 credits
Subspecialization Requirements	9 credits
Elective Courses	<u>3 credits</u>
Total	*33-36

Foundation Requirements - 9 credits

EDUC	5111	Educational Research I	3
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Select six (6) credits from the following courses

EDUC	5013	Sociological Foundations of Education	3
EDUC	5024	Psychological Foundations of Education	3
EDUC	5035	Philosophical Values and Perspectives in Contemporary Education	3
EDUC	5046	The Individual, Society and Education	3
EDUC	5047	Psycho-Social Foundations of Education	3
EDUC	5057	Comparative Education	3

Specialization Requirements - 12 credits

EDUC	6013	Organizational Behavior in Educational Institutions	3
EDUC	6079	Instructional Leadership	3
EDUC	6624	Managerial Practices in Educational Scenarios	3
EDUC	6094	Educational Management Workshop	3
		or	
		Persons expecting to be certified by the Puerto Rican Department of Education should take the Internship corresponding to level of the license they are interested in	
EDUC	6915	Internship in Educational Management (PK-6)	3
		or	
EDUC	6916	Internship in Educational Management (7-12)	3

Subspecialization Requirements - 9 credits

Depending on their personal and professional interest, and in agreement with their academic counselor, students should complete nine (9) additional credits from the following fields of interest:

- a. Education (PK-6)
- b. Education (7-12)
- c. Postsecondary Institutions
- d. Special Education

*Students that take the course EDUC 697A (Integration Seminar) to meet the requirements of the Comprehensive Examinations and Other Options for Masters' Programs established in this Catalog will take a total of 36 credits.

Specialization in Occupational Education (M.A.)

The Master's Degree Program in Occupational Education aims to prepare managerial personnel necessary to occupy the managerial and supervisory positions in the fields of technical and vocational education. In addition, the

Program aims to prepare teaching personnel for public and private systems who are devoted to the development of human resources in areas such as: teaching, curriculum design and development, coordination of occupational experiences and planning and evaluation of programs and services.

It also hopes to prepare responsible personnel for training and retraining human resources in the business sector and in private secondary and postsecondary institutions that prepare personnel in different occupational fields.

In addition to completing the master studies admission requirements established by Inter American University, the candidate desiring to enter this Program must comply with the following requirements:

1. Have an interview with the Admissions Committee composed of program faculty and be favorably recommended by this committee.
2. Submit two letters of recommendation from professionals who know the applicant.

In addition to the abovementioned general requirements, candidates must satisfy one of the following requirements:

1. Have a Bachelor's Degree from a recognized university in one of the areas of technical and vocational education. In these cases, the Admissions Committee will determine whether or not the candidate will be required to meet other requirements before being admitted to the Program.
2. Have a certificate as teacher of technical or vocational education in one of the categories established in the Certification Rules of the Department of Education or qualify for this certification.

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS IN EDUCATION DEGREE WITH A SPECIALIZATION IN OCCUPATIONAL EDUCATION

Foundations Requirements		9 credits
Specialization Requirements		24 credits
Prescribed Distributive Requirements		<u>3 credits</u>
	Total	36

Foundations Requirements - 9 credits

EDUC	5111	Educational Research I	3
EDUC	6046	Curriculum Development	3
EDUC	6058	Legal Aspects in Education	3

Specialization Requirements - 24 credits

EDUC	5240	Foundations of Occupational Education	3
EDUC	6510	Organization and Administration of Occupational Education	3
EDUC	6520	Supervision in Occupational Education	3
EDUC	6530	Strategies Applied to Management of the Occupational Workshop	3
EDUC	6540	Assessment and Measurement of Learning Occupational Education	3
EDUC	6550	Curriculum Design in Occupational Education	3
EDUC	6570	Occupational Education for Students with Special Needs	3
EDUC	6923	Practicum in Administration and Supervision of Occupational Programs	3

Prescribed Distributive Requirements - 3 credits

Students will select one (1) course from the following or related courses with the approval of their academic advisor:

EDUC	6560	Current Issues in Occupational Education	3
EDUC	6580	Computers in Education	3
EDUC	6590	Evaluation Models of Occupational Programs	3
EDUC	6925	Internship and Research in Occupational Programs	3

Specialization in Physical Education (M.A.)

The Masters in Arts Program in Education with a specialization in Physical Education enables the student to study the complexities of movement of the human body in its diverse manifestations. Graduates will be able to design, to implement and evaluate programs in the context of formal and informal education. Emphasis on the integral formation of individuals in physical activity is an indispensable component in the promotion of active and healthful life styles. The courses of this Program promote research to its fullest extent and the integration of technology related to the field. Two subspecializations are offered: Teaching Physical Education and Sports Training and Performance. The subspecialization in Teaching Physical Education is oriented towards excellence in the preparation of effective professionals at the in the graduate level that have a solid formation in research, the design and implementation of the teaching and learning process in physical education. The subspecialization in Sports Training and Performance is directed to the development of physical training and sports programs in schools, sports and recreation.

In addition to meeting the master studies admission requirements established by Inter American University, candidates desiring to enter this Program must comply with the following requirements for both subspecializations: Teaching of Physical Education and Sport Training and Performance:

1. A Bachelor's Degree in Physical Education, health or related areas.
2. A course in statistics.

The San Germán Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATION WITH SPECIALIZATION IN PHYSICAL EDUCATION

Core Course Requirements in Education	9 credits
Core Course Requirements in Physical Education	9 credits
Subspecialization Requirements	12 credits
Elective Courses	<u>6 credits</u>
Total	36

Core Course Requirements in Education - 9 credits

EDUC	5111	Educational Research I	3
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Six (6) credits from the following courses:

EDUC	5035	Philosophical Values and Perspectives in Contemporary Education	3
EDUC	5046	The Individual, the Society and Education	3
EDUC	5068	Western World Education	3

Core Course Requirements in Physical Education - 9 credits

HPER	5000	Selected Bibliography in Physical Education	3
HPER	6440	Motor Learning	3
HPER	6910	Practicum	3

Subspecializations

Students will select one of the following subspecializations:

Subspecialization in Sports Training and Performance

Requirements in the Subspecialization Sports Training and Performance - 12 credits

HPER	5300	Sports Psychology	3
HPER	6030	Prevention and Rehabilitation of Athletic Injuries	3
HPER	6100	Training Theory and Methodology	3
HPER	6110	Physiology of Exercise	3

Thesis Option

Students may substitute a thesis for six (6) elective credits. In such cases, they must take:

EDUC	6900	Thesis Seminar	3
EDUC	6990	Thesis	3

Subspecialization in Teaching of Physical Education

Requirements in the Subspecialization Teaching of Physical Education - 12 credits

HPER	5040	Curriculum Development in Physical Education	3
HPER	5050	Evaluation, Assessment and Measurements in Physical Education	3
HPER	5070	Models and Strategies for Teaching Physical Education	3
HPER	6010	Supervision of Physical Education	3

Specialization in Special Education (M.A.)

The Program leading to the Master of Arts Degree in Special Education prepares teachers to work with exceptional students. The goals of the Program are: prepare special education teachers who perform with excellence in the teaching of exceptional students; who know and make good use of the theories, principles, concepts and norms that govern the educational processes, prepare teachers with the necessary competencies for scientific research, design of creative and innovating projects and use of technology in the educational processes, train special education teachers with leadership who contribute in a proactive way to accomplish significant changes in the teaching of exceptional students.

In addition to meeting the admission requirements for Master Degree studies established in this Catalog, candidates for admission to this Program must satisfy the following specialization requirements:

1. A course in statistics
2. Bachelor's Degree in Special Education
3. Bachelor's Degree and three (3) credits in Special Education in each of the following fields:
 - a. Evaluation and Diagnosis
 - b. Teaching Methods
 - c. Introduction to Special Education*
4. Interview with an admissions committee of the faculty of Special Education composed of at least two full-time professors.

*Does not apply to students who have a Bachelor's Degree in Special Education.

The Metropolitan and San Germán campuses are authorized to offer this Specialization.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN SPECIAL EDUCATION

Foundation Course Requirements	12 credits
Core Course Requirements	18 credits
Prescribed Distributive Requirements	<u>9 credits</u>
Total	39

Foundation Course Requirements - 12 credits

EDUC	5024	Psychological Foundations of Education	3
		or	
EDUC	5047	Psychosocial Foundations of Education	3
EDUC	5111	Educational Research I	3
EDUC	6220	Human Development Processes	3
EDUC	6340	Speech Development and Disorders	3

Core Courses Requirements - 18 credits

EDUC	6066	Technological Aid in the Teaching of Exceptional Students	3
EDUC	6240	Techniques of Behavior Analysis	3
EDUC	6270	Evaluation and Design of Teaching for Exceptional Students	3
EDUC	6300	Teaching Reading and Writing to Exceptional Students	3
EDUC	6320	Teaching Mathematics to Exceptional Students	3
EDUC	6850	Seminar in Special Education	3

Prescribed Distributive Requirements - 9 credits

Select 9 credits from the following courses:

*EDUC	5740	Education of Exceptional Students	3
EDUC	6043	The Student with Mental Retardation	3
EDUC	6044	Students with Specific Learning Problems	3
EDUC	6045	Students with Superior Intelligence and Talents	3
EDUC	6047	Nature and Needs of Handicapped Infants and Preschool Children	3
EDUC	6048	Evaluation and Programming for Handicapped Preschool Children	3
EDUC	6049	Students with Severe Behavior Disorders	3
EDUC	6058	Legal Foundations of Education	3
EDUC	6270	Evaluation and Design of Teaching for Exceptional Students	3
EDUC	6380	Administration of Special Education Programs	3
**EDUC	6910	Teaching Practice	3
EDUC	697_	Integration Seminar	3

Thesis option

Students may substitute a thesis for the nine (9) credits of the Prescribed Distributive Courses. For the thesis option, students must take the following courses:

EDUC	6900	Thesis Seminar	3
EDUC	6990	Thesis	3

*Applies only to students who do not have a bachelor's degree in Special Education.

** Applies only to students who do not have an approved Practice Teaching in Special Education

Specialization in the Teaching of Mathematics (M.A.)

The specialization in the Teaching of Mathematics aims to strengthen and expand the teachers' mathematical knowledge and skills and to develop in them a positive attitude towards the teaching of this subject. In addition, this program has the purpose of developing a positive attitude towards the teaching of mathematics in the teachers. These goals are expected to be attained through a curriculum that incorporates different methodological approaches to course content. These will include cooperative learning, exploration activities and the appropriate use of technology.

Admission Requirements

In addition to completing the master studies admission requirements established by Inter American University, the candidate desiring to enter this Program must one of the following options:

1. Possess a Bachelor of Arts Degree in Education with a Specialization en Mathematics and have taken a course in Discrete Mathematics or its equivalent.
2. Possess a Bachelor's Degree; have taken a minimum of six credits in Foundations in Education and the following courses or their equivalent: Statistics, Discrete Mathematics Precalculus and Calculus.

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATION IN THE TEACHING OF MATHEMATICS

Foundation Requirements		6 credits
Specialization Requirements		24 credits
Elective Courses		<u>6</u> credits
	Total	*39

Foundation Requirements - 6 credits

EDUC	5111	Educational Research I		3
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Select one course from the following:

EDUC	5024	Psychological Foundations		3
EDUC	5035	Philosophical Values and Perspectives in Contemporary Education		3
EDUC	5046	The Individual, the Society and Education		3

Specialization Requirements - 24 credits

EDUC	5105	Use of Technology in Teaching Mathematics		3
EDUC	5133	Statistics		3
EDUC	6024	Educational Measurement and Evaluation		3
EDUC	6310	Methodology in Teaching Mathematics		3
MATH	5100	Intermediate Calculus		3
MATH	5400	Probability		3
MATH	5800	Topics in Abstract Algebra		3
MATH	6100	Introduction to Real Analysis		3

Elective Course Requirements - 6 credits

The following elective courses are suggested:

EDUC	6044	Students with Specific Learning Problems		3
EDUC	6045	Students with Superior Intelligence and Talents		3

EDUC	6320	Teaching Mathematics to Exceptional Students	3
EDUC	6046	Curriculum Development	3
MATH	5500	Advanced Discrete Mathematics	3
MATH	6100	Introduction to Real Analysis	3
MATH	6400	Advanced Mathematical Statistics	3

*As a graduation requirement, students must take the course EDUC 697A Integration Seminar (3 credits), once they have passed the Foundation and Specialization requirements. Students will thus complete a total of 39 credits.

Specialization in the Teaching of Science (M.A.)

The purpose of the Teaching of Science specialization is to refine the teaching skills of teachers and school supervisors through educational experiences that will expand their knowledge of the teaching-learning processes in sciences. It is also hoped that the graduates from this Program will make a significant contribution to the educational system through curricular revisions and teaching innovations aimed at excellence in the scientific education area. It also aspires to increase interest in the study of sciences at all levels.

In addition to completing the master studies admission requirements established by Inter American University, the candidate desiring to enter this Program must meet the following requirements:

1. A course in statistics.
2. One of the following options:
 - a. A Bachelor's Degree of Arts in Education with a Specialization in the Natural Sciences.
 - b. Science Teacher Certification.
 - c. A Bachelor's Degree of Science with a Specialization in Biological or Physical Sciences, six (6) credits in Foundations of Education and three (3) credits in Teaching Methods in the Natural Sciences.

The Metropolitan and San Germán campuses are authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATION IN THE TEACHING OF SCIENCE

Specialization Requirements	27 credits
Prescribed Distributive Requirements	<u>12</u> credits
Total	39

Specialization Requirements - 27 credits

EDUC	5000	Geography for Teachers	3
EDUC	5009	Chemistry for Teachers	3
EDUC	5011	Physics I for Teachers	3
EDUC	5015	Biology for Teachers	3
EDUC	5100	The Computer in the Teaching of Science	3
EDUC	5111	Educational Research I	3
EDUC	6024	Educational Measurement and Evaluation	3
EDUC	6046	Curriculum Development	3
EDUC	6057	Teaching Models and Strategies	3

Prescribed Distributive Requirements - 12 credits

A. Six (6) credits from the following courses:

EDUC	5013	Sociological Foundations	3
EDUC	5024	Psychological Foundations	3

EDUC	5035	Philosophical Values and Perspectives in Contemporary Education	3
EDUC	5046	The Individual, the Society and Education	3
EDUC	5057	Comparative Education	3
EDUC	5068	Western World Education	3
EDUC	5133	Statistics	3
EDUC	6013	Organizational Behavior in Educational Institutions	3
EDUC	6079	Educational Supervision	3

B. Six (6) credits from the following courses:

EDUC	5003	Ecology for Teachers	3
EDUC	5012	Physics II for Teachers	3
CHEM	5013	Theory and Mechanisms in Organic Chemistry	3
BIOL	5017	Biochemistry and Cellular Physiology	3
BIOL	5019	History and Philosophy of Science	3

Thesis Option

Students opting for the preparation and defense of a thesis will take six (6) credits from the Prescribed Distributive Requirements; three (3) credits from section A and three (3) from section B.

In addition, they will take the following courses:

EDUC	6900	Thesis Seminar	3
EDUC	6990	Thesis	3

Master in Education in Curriculum and Teaching (M.Ed.)

The Master in Education Degree in Curriculum and Teaching is a program for curriculum development designed for graduates of Programs of Teaching, Arts and Sciences of Postsecondary Institutions of Puerto Rico, desiring to complete a program based on the study, analysis, reflection and application of current technical theories. The Program integrates technology into the teaching and learning processes, distance learning and the search for information.

The Program is designed to develop leaders in curriculum and teaching through competencies based on research, analysis and evaluation of problems that lead to school curriculum reformulation. The Program will offer the student an ample and critical view of the curricular component of an educational system and a basic understanding of its problems. In addition, it will give attention to the needs of professionals in teaching by providing skills and knowledge not contemplated at the undergraduate level, in their area of specialization. These areas include Biology, Chemistry, English as a Second Language, History, Mathematics, and Spanish

The Program is based on a practical approach, adapting and applying its requirements to the development of a project that will have an impact on the school curriculum within the selected specialization. The Program presents integrated experiences to direct the attention of participants to important educational issues that simultaneously contribute to the improvement of the school community. The Program will give attention to and reflect on ethical, moral and religious principles.

In addition to meeting the admission requirements for master degree established in this Catalog, candidates wishing to enter this Program must meet the following requirements:

1. Have passed a course in statistics (3 credits).
2. Meet one of the following options:
 - a. Have a Baccalaureate in Arts in Education with specialization in one of those offered in this Program.
 - b. Have a Bachelor's Degree in Science in Secondary Education with specialization in one of those offered in this Program.
 - c. To have a Baccalaureate in Arts with specialization in one of the offered subjects.
 - d. Have a Baccalaureate in Science with a major in Biology, Chemistry, Mathematics or Health Sciences.

- e. Have a Baccalaureate in Arts or Science and have a Teaching Certificate from the Puerto Rico Department of Education to teach the specialty they are requesting.
3. Be interviewed by an admissions committee composed of at least two full time professors, and be recommended favorably by it.

Graduation Requirements

In order to meet the institutional graduation requirements for the Masters Program in Curriculum and Teaching, students must satisfy one of the following options:

EDUC	6932	Research or Application Project in the Area of Specialization II	3
		or	
EDUC	697_	Integration Seminar	3
		or	
		An elective course in the Specialization at the 5000 or major level (in case the option of Comprehensive Examination is selected)	3

The Arecibo Campuses is authorized to offer the specializations in Spanish, English as a Second Language, Mathematics, and Biology.

The Ponce Campus is authorized to offer all of the specializations through classroom learning. It is also authorized to offer the Biology, English as a Second Language, History, Mathematics and Spanish specializations through distance learning.

REQUIREMENTS FOR THE MASTER OF EDUCATION DEGREE IN CURRICULUM AND TEACHING IN BIOLOGY, CHEMISTRY, ENGLISH AS A SECOND LANGUAGE, HISTORY, MATHEMATICS, AND SPANISH

Core Course Requirements in Education	9 credits
Specialization Requirements in Curriculum and Teaching	15 credits
Specialization Requirements (Subjects)	<u>15</u> credits
Total	39

Core Course Requirements in Education - 9 credits

EDUC	5047	Psychosocial Foundations of Education	3
EDUC	6580	Computers in Teaching	3
EDUC	6931	Research or Application Project in the Area of Specialization I	3

Requirements in Curriculum and Teaching - 15 credits

EDUC	6024	Educational Measurements and Evaluation	3
EDUC	6046	Curriculum Development	3
EDUC	6056	Curriculum Evaluation	3
EDUC	6057	Teaching Models and Strategies	3

Student will select one course from the following

EDUC	6932	Research or Application Project in the Area of Specialization II	3
		or	
EDUC	697_	Integration Seminar	3
		or	
		An elective course in the Specialization at the 5000 or major level (in case the option of Comprehensive Examination is selected)	3

Students of the Masters Program in Curriculum and Teaching may choose among three options to fulfill the requirements of their academic degree:

1. Continue with the completion of a research project or of the application in the specialization area (EDUC 6932).
2. Take the course Integration Seminar (EDUC 697-).
3. Take a three credit elective course at the 5000 or major level in the Specialization if they decide on the Comprehensive Examination.

Specialization in Biology (M.Ed.)

Specialization Requirements in Biology - 15 credits from the following courses

BIOL	6904	Cellular Biology	3
BIOL	6905	Molecular Biology	3
BIOL	6906	Human Physiology	3
BIOL	6907	Immunology	3
BIOL	6908	Marine Biology	3
BIOL	6909	Biogeography	3
BIOL	6910	Environmental Science	3

Specialization in Chemistry (M.Ed.)

Specialization Requirements in Chemistry - 15 credits

Required courses - 9 credits

CHEM	6904	Advanced Inorganic Chemistry	3
CHEM	6905	Instrumental Methods for Chemical Analysis	3
CHEM	6906	Organic Reaction Mechanisms	3

Students will take 6 credits from the following courses:

CHEM	6907	Thermodynamic Chemistry	3
CHEM	6908	Environmental Chemistry	3
CHEM	6909	Industrial Chemical Hygiene	3
CHEM	6910	Biochemistry and Molecular Biology	3
CHEM	___	Special Topics	3

Specialization in English as Second Language (M.Ed.)

Specialization Requirements in English as Second Language - 15 credits from the following courses

ENGL	6904	Applied Linguistic in the Teaching of English as a Second Language	3
ENGL	6905	Second Language Acquisition and Sociocultural Analysis	3
ENGL	6906	Fundamentals of the Teaching of English as a Second Language: Theory, Practice and Assessment	3
ENGL	6907	Advanced Research and Techniques in Reading, Instruction and Assessment	3
ENGL	6908	Advanced Research and Techniques in Writing, Instruction and Assessment	3
ENGL	6909	Literary Critique: Analysis, Techniques and Assessment	3

Specialization in History (M.Ed.)

Specialization Requirements in History - 15 credits from the following courses

HIST	6904	Analysis and Development of Historical Thought I	3
HIST	6905	Analysis and Development of Historical Thought II	3
HIST	6906	Historical Context of the Western World	3
HIST	6907	Historical Context of Contemporary Puerto Rico	3
HIST	6908	Historical Context of the United States	3
HIST	6909	Historical Context of Latin America	3

Specialization in Mathematics (M.Ed.)

Specialization Requirements in Mathematics - 15 credits

Required Course – 3 credits

MATH	6909	Problems Solving	3
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Students will select 12 credits from the following courses:

MATH	6904	Advanced Algebra	3
MATH	6905	Modern Geometry	3
MATH	6906	Real Number Analysis	3
MATH	6907	Probability and Statistics	3
MATH	6908	Discrete Mathematics	3
MATH	6910	History of Mathematics	3
MATH	6911	Analytical Geometry	3
MATH	—	Special Topics	3

Specialization in Spanish (M.Ed.)

Specialization Requirements in Spanish - 15 credits from the following courses

SPAN	6904	Importance and Pertinence of Applied Linguistics in the Study of the Spanish Language in Puerto Rico	3
SPAN	6905	Application of Advanced Grammar in Modern Composition	3
SPAN	6906	Critical View of Puerto Rican Literature: 20th Century to the Present	3
SPAN	6907	Important Figures in Contemporary Spanish-American Literature	3
SPAN	6908	New Approaches to the Teaching of Spanish	3
SPAN	6909	Study and Application of Reading and Writing as Teaching Tools	3
SPAN	6910	Trajectory and Evolution of the Concept of Identity in Puerto Rican Poetry of the 20th Century	3
SPAN	—	Special Topics	3

Masters in Education (M.Ed.)

Specialization in Interdisciplinary Special Education (M.Ed.)

The specialization in Interdisciplinary Special Education aspires to develop a professional in special education properly endowed with the knowledge, necessary skills and attitudes so that he can: (a) provide interdisciplinary services to the student population with and without disabilities from childhood to high school; (b) become involved

effectively with the families of the student population with and without disabilities; (c) offer educational services in inclusive classrooms, in other natural environments and in special classrooms.

Admission Requirements for the Master of Education with Specialization in Interdisciplinary Special Education Program

To enroll in the Master of Education with Specialization in Interdisciplinary Special Education Program students must:

- Have a Baccalaureate in Special Education or Special Pre-school Education. The student who has a Baccalaureate of Education in another discipline must approve 9 credits in Special Education.
- Or have a Baccalaureate in health related areas, psychology or social work and have approved the courses established in the Teacher Certification Law.
- Take the EXADEP.
- Have a general average of 2.50 or more.
- Have approved 3 credits in basic statistics with a minimum grade of C.

The Guayama Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN INTERDISCIPLINARY SPECIAL EDUCATION

Specialization Requirements		30 credits
Prescribed Distributive Requirements		<u>9</u> credits
	Total	39

Specialization Requirements - 30 credits

EDUC	5740	Education of Exceptional Students	3
EDUC	6053	Interventions with Families in Inclusive Environments	3
EDUC	6054	Assessment in Interdisciplinary Special Education	3
EDUC	6059	Design and Development of Interdisciplinary Special Curricula	3
EDUC	6060	Teaching, Methods of Intervention and Materials for Special Students	3
EDUC	6066	Technological Assistance in the Teaching of Students with Disabilities	3
EDUC	6340	Speech Development and Disorders	3
EDUC	691A	Internship in Interdisciplinary Special Education	3
EDUC	6931	Research or Application Project in the Area of Specialization I	3
EDUC	6932	Research or Application Project in the Area of Specialization II	3

Prescribed Distributive Requirements - 9 credits

Nine credits from the following courses:

EDUC	6043	The Student with Mental Retardation	3
EDUC	6044	Students with Specific Learning Problems	3
EDUC	6047	Nature and Needs of Special Infants and Pre-school Children	3
EDUC	6048	Evaluation and Programming for Infants and Pre-school Children with Handicaps	3
EDUC	6050	Current Issues in Interdisciplinary Special Education	3
EDUC	6055	Seminar in Interdisciplinary Special Education	3
EDUC	6240	Techniques of Behavior Analysis	3
EDUC	6300	Teaching Reading and Writing to Exceptional Students	3
EDUC	6320	Teaching Mathematics to Exceptional Students	3

Masters in Education (M.Ed.)

Specialization in Teaching at the Elementary Level (M.Ed.)

The Masters in Education in Teaching at the Elementary Level Program has as its goal to provide students an excellent preparation in content, theories and current educational methodologies in teaching at the elementary level as well as the foundations and techniques of educational research to develop a professional who contributes in an integral and competent way to teaching with an ethical, social and cultural formation.

The Masters in Education in Teaching at the Elementary Level Program aims to develop a professional who can offer quality services. Its purpose is to provide an excellent preparation for professionals who are going to be or are teachers at the elementary level. This Program is directed to those graduates from Education, Arts and Sciences Programs from accredited universities that wish to complete a program based on the study, analysis, reflection, investigation and application of current educational theories to teaching at the elementary level. In addition, the Program integrates technology in the teaching-learning process, distance learning, and in the search for information.

The Program also aims to form and develop leaders of excellence in teaching at the elementary level through competencies based on analysis, research and the evaluation of strategies and curriculum. In addition, it permits students to develop a broad and critical vision of the elementary level curricular component and an understanding with an interdisciplinary approach to its merits and difficulties by taking core courses in fundamental teaching areas such as Spanish, mathematics, sciences, and social studies. The Program also offers a selection of novel and attractive courses aimed at complementing students' education, according to their needs and interest: English as a Second Language, topics of Children's Literature, creativity and corporal movement, topics on health, environmental conservation, and computers in education, among others.

The Program is based on a constructivist and pragmatic approach by requiring the implementation of projects that add, develop or expand the knowledge of elementary level teaching, with emphasis on the development of teaching methods, strategies and materials. This results in a variety of integrated and integral experiences directed to foment reflection, research and analysis on important matters in elementary education and that, simultaneously, contribute in a creative manner to the improvement of learning in the classroom. The Program deals with, by means of reflection and application, the ethical principles characteristic of a professional in elementary education as an agent of change, a leader in the school and in the school community.

General Admission Requirements

According to those established in the current Graduate Catalog.

Admission Requirements for the Program

1. Have passed the following courses with a minimum grade of C:
 - a. a course of History and Philosophy of Education
or
 - b. a course of Society and Education
 - c. a course of Developmental Psychology
 - d. a course in the Use of Technology in Education
 - e. a Statistics course
2. Be interviewed and have a favorable recommendation of an Admissions Committee, made up of a minimum of two full time professors.

Graduation Requirements

Students will graduate in agreement with the Program and the norms established in the applicable Graduate Catalog. In addition, students must pass the 39 credits of the Program with a minimum general grade index of 3.00.

By passing course EDUC 6932, students will comply with Section “Institutional Graduation Requirements for Master’s Programs” of this Catalog.

The Aguadilla, Arecibo, Barranquitas, Guayama, Metro, Ponce, and San Germán campuses are authorized to offer this Program.

REQUIREMENTS FOR THE MASTERS OF EDUCATION DEGREE WITH A SPECIALIZATION IN TEACHING AT THE ELEMENTARY LEVEL

Specialization Requirements	30 credits
Prescribed Distributive Requirements	<u>9</u> credits
Total	39

Specialization Requirements - 30 credits

EDUC	5045	Childhood, the Family and the School	3
EDUC	5047	Psycho-social Foundations of Education	3
EDUC	5114	Social Studies and Teaching Them at the Elementary Level	3
EDUC	5115	Sciences and Teaching Them at the Elementary Level	3
EDUC	5116	Spanish and Teaching It at the Elementary Level	3
EDUC	5117	Mathematics and Teaching It at the Elementary Level	3
EDUC	6024	Educational Evaluation and Measurements	3
EDUC	6046	Curricular Development	3
EDUC	6931	Research or Application Project in the Area of Specialization I	3
EDUC	6932	Research or Application Project in the Area of Specialization II	3

Prescribed Distributive Requirements - 9 credits

9 credits selected from the following courses:

EDUC	5118	English as a Second Language and Teaching It at the Elementary Level	3
EDUC	5119	Topics in Health and Teaching Them at the Elementary Level	3
EDUC	5120	Probability and Statistics and Teaching Them at the Elementary Level	3
EDUC	5121	Environmental Sciences and Teaching Them at the Elementary Level	3
EDUC	5122	Critical Analysis of Childhood Literature at the Elementary Level	3
EDUC	5123	Creativity and Corporal Expression	3
EDUC	5124	Appreciation and Integration of Art at the Elementary Level	3
EDUC	597_	Special Topics in Elementary Education	1-6
EDUC	6580	Computers in Education	3
ESPA	6909	Study and Application of Reading and Writing as Teaching Tools	3

Specialization in Information Technology and Library Services (M.Ed.)

The Masters of Education Degree with a Specialization in Information Technology and Library Services has as its mission the preparation of librarian teachers that can offer information services giving emphasis to the new technologies, to meet the needs and interests of students, teachers and other members of the Puerto Rican community. In addition, it aims to have this professional evaluate, select and it use information technology as a means to support and improve educational services, and therefore, the quality of the teaching and learning processes.

The Barranquitas Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTERS OF EDUCATION DEGREE WITH SPECIALIZATION IN INFORMATION TECHNOLOGY AND LIBRARY SERVICES

Core Course Requirements	9 credits
Specialization Requirements	21 credits
Elective Courses	<u>3</u> credits
Total	33

Core Course Requirements - 9 credits

EDUC	5047	Psycho-social Foundations of Education	3
EDUC	6057	Teaching Models and Strategies	3
LISC	6750	Bibliographic Instruction	3

Specialization Requirements - 21 credits

LISC	5000	Library Fundamentals and Information Sciences	3
LISC	5200	Information Services and Documentation	3
LISC	5300	Cataloging and Bibliographic Descriptions	3
LISC	5450	Collection, Acquisition, Development and Evaluation	3
LISC	6150	Administration of School Libraries	3
LISC	6250	Research Methods Applied to Library and Information Services	3
LISC	6350	Educational Technology: Use, Production and Evaluation	3

Doctoral Program in Education (Ed.D.)

Philosophy and Mission of the Program

The philosophy of the Doctorate in Education is to contribute to the improvement of the educational situation by the formation of people with sensitivity, alertness, receptiveness, competence and who are able to advance in a specialty area while rendering services of excellence to society.

The mission of the Doctoral Program in Education is to prepare professionals who can undertake the management and support of instructional programs in different contexts and scenarios. In addition, the program aspires to contribute to the encouragement, development and appreciation of scientific research as a means of analysis and solution of problems that affect education.

Goals of the Graduate Program in Education:

The Graduate Program aspires to achieve the following goals:

1. Promote the development of professionals with the critical capacity, ethical attitude and creative disposition that enables them to understand and act in the diverse contexts and educational scenarios,
2. Integrate in a critical manner the economic, political, social, psychological, philosophical and historical analysis in the comprehensive study of education;
3. Promote research as a foundation for the study and development of educational projects.

Admission as a candidate to the Doctoral Degree

In order to be considered a candidate to the Doctoral Degree, the student must pass the comprehensive examination. The student will have three opportunities to pass.

The Doctor in Education degree offers specializations in Business Education, Counseling, Curriculum and Teaching, Educational Management and Leadership, Higher Education and Special Education Administration.

Academic Advisement

1. Once admitted to the Program a professor will be assigned to each student. This professor will perform the function of academic advisor.
2. Before initiating registration of his first term of study the student, together with his academic advisor, will elaborate his plan of studies.
3. This plan of study will be considered as an agreement between the student and the Program. It must be approved by the Director of the Program.
4. The student, together with the advisor, will evaluate the plan of study periodically to verify its status.

Admission Requirements

To be admitted to this program, students must:

1. Have earned a master's degree at an accredited university with an academic average of at least 3.00.
2. Demonstrate mastery of English and Spanish according to the criteria established by the Program.
3. Have approved one of the tests for admission to graduate programs, officially accepted by the University, with an acceptable grade, within five years immediately preceding the date of admission.
4. Present evidence of having approved: a statistics course, a human development and learning course, another in general psychology; and a course in research methods at the master's level. Candidates to the specialization of Curriculum and Teaching must have passed a course in educational philosophy or its equivalent. This requirement replaces the course of general psychology.
5. Present three (3) letters of recommendation from professors, supervisors or other people that demonstrate the professional development of the candidate.
6. Have an interview with and be recommended by the Admissions Committee.
7. In addition, to meeting the admission requirements to doctoral studies established by the University, the candidate who wishes to enter the Doctoral Program in Education with a Specialization in Counseling and whose Masters is not in this area of specialization will have to meet the following thematic areas:
 - Foundations of counseling
 - Theoretical foundations of counseling
 - The aid process
 - Occupational development
 - Group counseling process
 - Measurement and evaluation
8. In addition to fulfilling the admission requirements of the program, students must have the following two courses or their equivalents if they are seeking the Doctor in Education Degree with specialization in Special Education and Transition Services.

EDUC	5740	Education of Exceptional Students	3
EDUC	6360	The Family in the Education of Handicapped Students	3
9. In addition to fulfilling the admission requirements to doctoral studies established by the University, the candidate who wishes to enter the Doctoral Program in Education with a Specialization in Business Education and whose Masters Degree is not in this area must have a Baccalaureate in Offices Administration, Business Administration or equivalent, in addition to fulfilling the following thematic areas at the masters level:
 - Measurement and Evaluation in Business Education
 - Administration and Supervision in Business Education
 - Curriculum Design in Business Education
 - Two courses of Methodology in Business Education

Graduation Requirements

1. Students must pass:
 - a. all Program courses with a minimum grade of B.
 - b. the doctoral comprehensive examination in all the parts (oral and written) for which students will have a maximum of three opportunities.
 - c. the doctoral dissertation.
2. The Program Director in common agreement with the student, will designate a Dissertation Committee composed of three members of the Faculty, one of which will preside over the Committee. The candidate's Dissertation Committee will have, from then on, the function of advising and directing the student until the completion of his dissertation. Prior to the defense, two members will join as readers. The Committee in its entirety will recommend the defense of the Dissertation.
3. The student must meet the requirements for the degree within an eight (8) year period. The Program Director can recommend to the appropriate authorities the extension of this term for a period not greater than two (2) years only in exceptional cases.

The Doctor in Education degree offers specializations in Business Education, Counseling, Curriculum and Teaching, Educational Management and Leadership, Higher Education and Special Education Administration.

The Metropolitan Campus is authorized to offer all specializations, except the specialization in Business Education.

The San Germán Campus is authorized to offer the specializations in Business Education, Educational Management and Leadership, and Curriculum and Teaching. In addition, it is authorized to offer 51% of the courses of the specialization in Counseling..

REQUIREMENTS FOR THE DOCTORAL PROGRAM IN EDUCATION

Core Course Requirements	15 credits
Specialization Requirements	*18-24 credits
Operational Requirements	9 credits
Elective Courses	*3-9 credits
Total	51

*The number of credits varies according to the specialization.

Core Course Requirements - 15 credits

The Core Course Requirements are divided into two components: Research and Foundations.

Research Component - 9 credits

EDUC	7050	Statistics	3
EDUC	7060	Research Methods I	3
EDUC	7070	Research Methods II	3

Foundations Component - 6 credits

Select 6 credits from the following:

EDUC	7003	Formation and Development of Educational Thought in Puerto Rico	3
EDUC	7010	Socio-Scientific Concepts of Education	3
EDUC	7020	Culture, Education and Philosophy	3
EDUC	7030	Analysis of Human Behavior	3

EDUC	7510	Comparative Education	3
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Operational Requirements - 9 credits

EDUC	8960	Research Seminar	3
EDUC	8991	Dissertation **	3
EDUC	8992	Dissertation **	3

** The student will maintain enrollment in the course until completing its requirements.

Specialization Requirements – 18-24 credits

Elective Courses – 3-9 credits

Courses selected at the doctoral level in consultation with the academic advisor.

Specialization in Business Education (Ed.D.)

The specialization in Business Education is aimed to satisfy the needs for continuous professional growth of Business Education teachers of Puerto Rico and the Caribbean, by means of the creative and reflective search for alternatives for the development of pedagogical practices. This program aspires to develop professionals who can assume leading positions in harmony with the needs of the public and private educational systems, especially at the higher education level. In addition, it will train leaders in Business Education who will contribute to advance the mission of the different academic programs in public and private scenarios in and outside Puerto Rico.

REQUIREMENTS FOR THE SPECIALIZATION IN BUSINESS EDUCATION

Core Courses		
Foundations		6 credits
Research		9 credits
Specialization Requirements		21 credits
Operational Requirements		9 credits
Elective Courses		<u>9</u> credits
	Total	51

Requisitos de la Especialidad en Educación Comercial-21-créditos

Required Courses – 15 credits

BUED	7030	Contemporary Approaches and Teaching Strategies in Business Education	3
BUED	8500	Business Education in the Global Context	3
BUED	8520	Evaluation and Selection of Emergent Technology in Business Education	3
BUED	8525	Assessment and Evaluation of Business Education Programs	3
BUED	8615	Design and Administration of Business Education Programs	3

Courses selected from the following - 6-credits

Select six credits from the following:

BUED	7020	Historical, Social and Ethical Aspects in Business Education	3
BUED	7050	Business Education at the Post-Secondary and University Levels	3
BUED	8620	Instructional Design for Online Business Courses	3
BUED	797_	Special Topics in Business Education	3
BADM	7010	Enterprise Development	3

EDUC	8500	Normative and Descriptive Models, Theories in the Administration Educational Organization and Supervision	3
EDUC	8570	Contemporary and Operational Approaches of the Educational Management	3
HURS	8060	High-Tecnology Management	3
HURS	8070	Human Resources Planning, Recruitment and Selection	3
INBU	7130	Multinational and Global Management and Strategy	3

Specialization in Counseling (Ed.D.)

The specialization in Counseling aspires to develop leaders with an integrated humanistic and socio-cultural formation that allows them to have a global conception of education and society. Problems will be presented with a universal scheme of values, in an interdisciplinary manner and put in the Puerto Rican socio-cultural context. These professionals will have the knowledge, skills and attitudes that enable them to effectively intervene in the processes of individual, group and familiar assistance. They will have to recognize the function that research plays in the educational field and in the development and effectiveness of professional counseling programs. Graduates of counseling will be able to perform with effectiveness as advisors and consultants in organizations, corporations, institutions, government agencies, public and private educational institutions and special populations.

This program has the following goals:

1. Form professional advisors by means of the scientific-practical model
2. Prepare professional advisors that master the competences required by the profession based on theory and research.
3. Develop professional advisors committed with their profession and growth as humans and professionals.
4. Have an academic offering in harmony with the diversification of counseling scenarios, student interests and the trends within the profession.

REQUIREMENTS FOR THE SPECIALIZATION IN COUNSELING

Core Courses		
Foundations		6 credits
Research		9 credits
Specialization Requirements		18 credits
Operational Requirements		9 credits
Elective Courses		<u>9</u> credits
	Total	51

Specialization Requirements in Counseling - 18 credits

EDUC	8300	Counseling and Consulting Program Design	3
EDUC	8330	Strategies, Methods and Techniques in Individual Counseling	3
EDUC	8360	Family and Couples Counseling	3
EDUC	8390	Group Counseling Seminar	3
EDUC	8510	Seminar in Professional Consulting	3
EDUC	8910	Internship	3

Students interested in the Professional Counseling license must meet the requirements established by the law governing the profession.

Specialization in Curriculum and Teaching (Ed.D.)

The specialization in Curriculum and Teaching is directed towards research, and the comprehensive study of curriculum and teaching. This has as its goal to encourage the development of new educational paradigms by means

of creative and reflective search of alternatives for curricular design and pedagogical practices, as well as, to analyze public policies in the different educational and cultural scenarios.

REQUIREMENTS FOR THE SPECIALIZATION IN CURRICULUM AND TEACHING

Core Courses		
Foundations		6 credits
Research		9 credits
Specialization Requirements		18 credits
Operational Requirements		9 credits
Elective Courses		<u>9 credits</u>
	Total	51

Specialization requirements in Curriculum and Teaching - 18 credits

EDUC	8100	Theoretical Foundations and Principles for the Study of Curriculum and Teaching	3
EDUC	8103	Contemporary Theoretical Perspective for the Study of Curriculum and Teaching	3
EDUC	8110	Design and Construction de Educational Programs	3
EDUC	8130	Learning and Teaching	3
EDUC	8160	Models of Curricular Evaluation	3
EDUC	8180	Development of Teaching Models	3

Elective Courses in the Specialization in Curriculum and Teaching - 9 credits

Students will select doctoral level courses in their areas of interest in Curriculum or Teaching or in another related area to complete the nine (9) credits. The consent of their academic advisor is required.

Specialization in Educational Management and Leadership (Ed.D.)

The specialization in Educational Management and Leadership combines the conceptual, technical, and attitudinal competencies to prepare professionals that will hold leadership positions in the area of education. The curriculum responds to the most recent trends related to the preparation of educational managers.

REQUIREMENTS FOR THE SPECIALIZATION IN EDUCATIONAL MANAGEMENT AND LEADERSHIP

Core Courses		
Foundations		6 credits
Research		9 credits
Specialization Requirements		21 credits
Operational Requirements		9 credits
Elective Courses		<u>6 credits</u>
	Total	51

Specialization Requirements in Educational Management and Leadership - 21 credits

EDUC	8500	Theories and Models in Educational Management and Leadership	3
EDUC	8530	The Educational Leader: Change and the Decision-Making Process	3
EDUC	8550	Contemporary Problems in Educational Management Seminar	3
EDUC	8570	Contemporary and Operational Approaches of Educational Management	3

Select 9 credits from the following:

EDUC	8505	Information Processing in Educational Management	3
EDUC	8515	Educational Management and Leadership Seminar	3
EDUC	8520	Human Resources Management in Educational Institutions	3

EDUC	8540	Labor Relations in Educational Management	3
EDUC	8545	Planning of the Educational Budget	3
EDUC	8560	Evaluative Process in Management and Instructional Leadership	3
EDUC	8565	Introduction to Educational Management and Leadership Seminar	3
EDUC	8670	Organization and Management of Special Education Programs	3
EDUC	8690	Assessment of Exceptional Children	3

Specialization in Higher Education (Ed.D.)

The specialization in Higher Education considers the graduate as a professional prepared to perform effectively in positions of leadership in institutions of higher education. The institutions at the post-secondary level need professionals capable of analyzing social, cultural, political and economic factors that affect decision making and who may reach beyond the mere adaptation to the profound technological and social changes, to become designers of a new future vision for higher education in Puerto Rico.

In addition to the requirements established in the Catalog, the candidate must have two years of educational or administrative experience in institutions of Higher Education.

REQUIREMENTS FOR THE SPECIALIZATION IN HIGHER EDUCATION

Core Courses		
Foundations		6 credits
Research		9 credits
Specialization Requirements		24 credits
Operational Requirements		9 credits
Elective Courses		<u>3</u> credits
	Total	51

Specialization Requirements in Higher Education - 24 credits

EDUC	7205	Historical Foundations of Higher Education	3
EDUC	8130	Learning and Teaching	3
EDUC	8150	Curriculum at the Post-secondary Level	3
EDUC	8215	Public Policy in Higher Education	3
EDUC	8225	Legal Foundations of Higher Education	3
EDUC	8230	Student Population in Higher Education	3
EDUC	8240	Institutional Evaluation in Higher Education	3
EDUC	8500	Models, Normative and Descriptive Theories in Educational Administration and Leadership	3

Specialization in Special Education Administration (Ed.D.)

REQUIREMENTS FOR THE SPECIALIZATION IN SPECIAL EDUCATION ADMINISTRATION

Core Courses		
Foundations		6 credits
Research		9 credits
Specialization Requirements		18 credits
Operational Requirements		9 credits
Elective Courses		<u>9</u> credits
	Total	51

Specialization Requirements in Special Education Administration - 18 credits

EDUC	8520	Personnel Administration: Vital Competencies and Functions	3
EDUC	8540	Labor Relations in Education Administration	3
EDUC	8600	Models and Normative Theories in the Administration,	

		Organization and Supervision of Special Education	3
EDUC	8610	Contemporary Approaches to Special Education Administration	3
EDUC	8630	Special Education Leader in the Decision Making Process	3
EDUC	8650	Seminar: Special Education Problems in Administrative Processes	3
EDUC	8660	The Evaluation Process in Administration and Supervision of Special Education	3

Operational Requirements - 9 credits

EDUC	8960	Research Seminar	3
EDUC	8991	Dissertation	3
EDUC	8992	Dissertation	3

Elective Courses - 9 credits

By means of academic counseling students will select the specialization courses at the doctoral level in curriculum and teaching, guidance and counseling, school psychology and management and leadership among others, according to their professional interests and projections.

Education in Diabetes (Professional Post-Baccalaureate Certificate)

Education in diabetes applies knowledge and educational skills to provide competent educational services to the population in risk of diabetes, pre-diabetes, people with diabetes and the important people in the life of the patient. The Certificate is offered to different health professionals (doctors, professional nurses with a bachelor's degree in nursing (BSN) or a masters (MS, MSN), dietitians, psychologists, exercise physiologists, pharmacists, health educators, occupational and physical therapists with a bachelor's degree, who have an interest in developing competences in the prevention, assessment, and in the clinical and educational administration of diabetes. This Certificate provides the development of the skill to realize individualized assessment of the person with diabetes, pre-diabetes and their caretakers. In addition, it provides for the formulation of an educational plan. It promotes critical thinking to consider, plan and initiate interventions to prevent the health problems presented by the person with diabetes, pre-diabetes and their caretakers. It will promote healthful lifestyles as part of the strategies of promoting and maintaining the health of the people with diabetes/pre-diabetes and their caretakers. The selected interventions are based on the evidence obtained by research within the field of the administration of and education about diabetes.

The Ponce Campus is authorized to offer this Program.

Admission Requirements

Have a current license in the health profession in which you work with at least a baccalaureate. If it is in nursing, it is required to at least have completed credit a Bachelor of Science Degree in Nursing (BSN) from an accredited institution with a minimum academic index of 2.50 in the major.

1. Minimum of two (2) years of work experience in one of the following disciplines: pharmacist, dietitian, social worker, occupational and physical therapist, and health educator. The psychologists, doctors and dentists must have a current license.
2. Interview with the coordinator of the Certificate in Diabetes or the person designated by the Academic Director.
3. Submit the following up-to-date documents:
 - Health Certificate
 - Vaccination Certificate against Hepatitis B and Influenza
 - Negative Certificate of Criminal Records
 - License and Registry of the health profession of in which you work, emitted by the Examining Board of the specialization field.
 - Membership in your professional association

Meet the established admission norms in the Graduate Catalog of Inter American University of Puerto Rico.

All those interested in entering this Program must be admitted to the University and meet the admission norms. Due to the exigencies of the regulating health agencies, students are asked to present original and up-to-date documentation of: Health Certificate, recent Criminal Record, and Certificate of immunization against Hepatitis B and Influenza.

REQUIREMENTS FOR THE PROFESSIONAL CERTIFICATE IN EDUCATION IN DIABETES

Requirements for the Professional Certificate - 15 credits

DIAB	5000	Fundamentals for Care of the Person with Diabetes	4
DIAB	5010	Administration of an Educational Program in Diabetes	4
DIAB	5020	Diabetes in Different Stages of Growth and Development	4
DIAB	5030	Diabetes and Its Complications	3

Educational Computing (M.A.)

The Master of Arts Degree in Educational Computing has the goal of preparing specialized professionals for integrating computing in education with an interdisciplinary approach. This Program aspires to develop leadership in graduates to promote significant educational changes and in addition, it provides the conceptual, technical and research competencies for the use of computational means in an effective manner in educational scenarios.

In addition to meeting the general requirements established by the University for admission to master degree studies, students must:

1. Have approved the following courses or their equivalent:
 - a) COMP 2110 Introduction to Computer Science
 - b) COMP 2120 Programming Logic
 - c) COMP 2300 Visual Programming
 - d) A course in Basic Statistics at the undergraduate level from a recognized university
 - e) A course in Educational Psychology at the undergraduate level from a recognized university
2. Demonstrate proficiency in the English language through reading and comprehension or have passed the Test of English as a Foreign Language (TOEFL).

Cases for transfer, equivalencies and validations, etc. will be considered by the Admissions Committee or by the Program Coordinator.

To obtain the Master of Arts Degree in Educational Computing, candidates must:

1. maintain a 3.00 academic index
2. defend and pass before the Program Committee, the project developed in the course ECMP 6980 Project Development in Educational Computing.

The Metropolitan Campus is authorized to offer this Program which can also be offered completely through Internet.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATIONAL COMPUTING

Specialization Requirements	30 credits
Prescribed Distributive Requirements	<u>9</u> credits
Total	39

Specialization Requirements - 30 credits

ECMP	5100	Future and Leadership of Computer Changes in Education	3
ECMP	5105	Design and Evaluation of Educational Software	3
ECMP	5130	Computer Assisted Educational Management	3
ECMP	5200	Authoring Languages	3
ECMP	5240	Special Peripherals, Telecommunications and Networks	3
ECMP	5245	Computer Programming	3
ECMP	6160	Computer Assisted Instruction	3
ECMP	6170	Training and Design of Computerized Practice	3
ECMP	6975	Research Seminar in Educational Computing	3
ECMP	6980	Project Development in Educational Computing	3

Prescribed Distributive Requirements - 9 credits

Students will select 9 credits from the following courses:

ECMP	5250	Knowledge Banks and Expert Systems	3
ECMP	6300	Interaction between the User and the Computer	3
ECMP	6310	Graphics Systems and Animations	3
ECMP	6320	Advanced Programming for Internet	3
ECMP	6350	Artificial Intelligence and Knowledge	3
ECMP	6355	Knowledge Acquisition and Intelligent Tutors	3
ECMP	6400	Distance Learning	3
ECMP	6970	Advanced Seminar Topics in Educational Computing	3
ECMP	6990	Thesis in Educational Computing	3
COIS	5100	Relational Data Banks	3
COIS	5120	Client-Server Networks and Architecture	3
COIS	5130	Design Methodology and Advanced Tools	3
COIS	5220	Reengineering Processes	3
COIS	6250	Multimedia and Interface	3
COIS	6360	Social Impact of Computers	3
COIS	6370	Geographic Information Systems	3
EDUC	5133	Statistics	3
EDUC	6013	Organizational Behavior in Educational Institutions	3
EDUC	6046	Curriculum Development	3

English (Teaching of English as a Second Language) (M.A.)

The of Master of Arts Program in Teaching English as Second Language aims to prepare professionals in applied linguistics and literature in the field of English as a second language. The objectives of the program are:

1. To train professionals capable of applying modern linguistic concepts and those of literature to the teaching-learning process of teaching English as a second language.
2. To provide students the academic preparation to continue doctoral studies and to continue innovating research projects in the field of teaching English as a second language.
3. To prepare professionals oriented to their continuous development.

Admission Requirements

Candidates for admission to the Masters Program in TESL must meet all admission requirements for entering master's degree programs established in the section "Admission Requirements for Masters' Programs" of the Graduate Catalog, except requirement 3: *Demonstrate, through an examination...* In addition, candidates must have a phonological and structural mastery of English that they will demonstrate by writing an essay and by an interview with the Department Director or his representative.

The Metropolitan and San Germán campuses are authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN TEACHING OF ENGLISH AS A SECOND LANGUAGE

Specialization Requirements	30 credits
Prescribed Distributive Requirements	<u>6</u> credits
Total	*36-39

Specialization Requirements - 30 credits

ENGL	5040	English Phonological System	3
ENGL	5050	English Syntax and Morphology	3
ENGL	5220	Academic Text Writing	3
ENGL	5240	Writing Theories and Their Application	3
ENGL	6090	Reading in a Second Language	3
ENGL	6100	Theory and Principles of TESL	3
ENGL	6113	Materials and Techniques in TESL at the Elementary, Secondary, Post Secondary and Adult Levels	3
ENGL	6170	Assessment of Linguistic Abilities	3
ENGL	6530	Research Methods	3

**ENGL

**Students must choose a course in the area of literature in accord with their interests.

Prescribed Distributive Requirements – 6 credits

Students will select six (6) credits from the following courses:

ENGL	5030	Principles of Linguistics	3
ENGL	5110	English Class Literary Text Reading	3
ENGL	5210	Dramatic Literature	3
ENGL	5230	Literature for Young Readers	3
ENGL	5290	Psycholinguistics	3
ENGL	5320	Sociolinguistics	3
ENGL	5330	First and Second Language Acquisition	3
ENGL	6120	Sociocultural Aspects of Puerto Rico and the United States	3
ENGL	6130	Fundamentals of Bilingual Education	3
ENGL	6150	Translation	3
ENGL	6180	Using the Computer in TESL	3
ENGL	6260	Contemporary Literature of the United States	3
ENGL	6310	Contemporary Fiction	3
ENGL	6350	Representative Works in English Literature	3
ENGL	6600	Supervision in TESL	3
ENGL	6610	Curriculum Development in TESL	3
ENGL		Special Topics	3
SPAN	6140	Teaching of Spanish as a Second Language	3

*Students who take course ENGL 6970 (Integration Seminar) or course ENGL 6992A (Research Project in MA-TESL) to fulfill the Graduation Requirements established in this Graduate Catalog, 2009-2011, will complete the Program with 39 credits.

Entrepreneurial and Managerial Development (Ph.D.)

The Doctoral (Ph.D.) Program in Entrepreneurial and Managerial Development with specializations in Human Resources and Interregional and International Business aims to prepare excellent professional to occupy high level administrative and management positions as well as positions in post secondary educational institutions in Puerto Rico.

This Program centers its interest in scientific research, the management of problems affecting the economy, politics and education. At the same time it provides for the development of analytical and critical thinking.

The Program aims to contribute to the formation of values and attitudes that should be characteristic of the professional person who recognizes the value of globalization and modern technology within the framework of current theories. It also aims to contribute to the social and economic improvement of Puerto Rico through the formation of highly competent, alert, receptive and capable professionals interested in the continuous enhancement and enrichment of knowledge, skills and attitudes.

General Program Objectives

1. To offer a high-quality doctoral program in the area of business administration to adequately meet the current emerging needs and interests of the Puerto Rican society and of geographic areas of greater relevance (the United States, the Caribbean and Central and South America).
2. To achieve the highest amount of knowledge and to develop the required conceptual and methodological skills for planning, directing and conducting creative and original scientific research in the area of business administration.
3. To assist in the integral formation of graduate by offering a curriculum with a modern human and global focus which at the same time propitiates the development of analytical, reflective and critical thinking.
4. To promote and support research oriented toward the achievement of those levels of efficiency and productivity which will contribute to economic growth, a reduced rate of unemployment, and which will bring about the just distribution of wealth and to the general welfare of our society.
5. To contribute to the formation of highly capable persons who individually or in groups, through participation and collaboration may show leadership, devotion and a continuous commitment to the search for innovative and creative solutions to the most relevant problems in the field of business administration at the local and foreign levels.
6. To promote students and professors' active participation in the solution of developmental, economic and social problems in Puerto Rico the Caribbean.
7. To expose students and the community to different trends of knowledge, practice and philosophies that guide the business administration field.
8. To promote both oral and written language proficiency in Spanish and English in this professional field.

Specific Objectives by Specialization

Specialization in Interregional and International Businesses

The specialization in Interregional and International Businesses is directed to develop the knowledge, skills and attitudes necessary for:

- Enhancing and enriching the teaching profession in higher education institutions;
- Planning, directing and leading creative and original scientific research;
- Making administrative business decisions in complex and conflicting situations in a global environment;
- Establishing policies and strategies for the development of companies at the domestic as well as the global level.

Specialization in Human Resources

The specialization in Human Resources is directed to develop in the graduates the knowledge, skills and attitudes necessary for:

- Enhancing and enriching the teaching profession in higher education institutions;
- Planning, directing and leading creative and original scientific research;
- Making administrative human resource decisions in complex and conflicting situations in a global environment;
- Establishing policies and strategies for the development of companies at the domestic as well as the global level.

Admission Requirements

Students who apply for admission to this Program must:

1. Have a Masters degree in Business Administration or equivalent, if evidence of experience in the field is presented.
2. Have passed mathematical courses at the calculus level.
3. Have passed courses at the graduate level in: accounting, finance, quantitative methods, managerial economy, statistics, statistics applied to business administration, computers, and management.
4. Have a minimum general average of 3.25.
5. Have passed the EXADEP with a minimum score of 550 points or the GMAT with a minimum score of 500.
6. Hold an interview with the Doctoral Program's Admissions Committee and be recommended by the Committee.
7. Demonstrate by examination or some other form that the Department, Graduate Studies Center, Professional School or the Academic Division considers appropriate, the abilities to interpret professional material, in Spanish as well as in English, and to communicate correctly in writing in one of these languages.

Conditional Admission

The Admissions Committee of the Program could recommend a conditional admission for a candidate who does not fulfill some requirements at the time of requesting admission to the Program. This conditional admission would allow the student to initiate studies in the Program.

Once the student passes nine (9) credits in the Program, with a minimum grade of B, in a period of time not greater than a year, the Admissions Committee will reevaluate the case and will make recommendations on the admission request. The performance in the courses taken in the Program, the professional experience, and other factors that the Admissions Committee considers appropriate will be taken into account to predict the student's success in the Program. This type of admission does not guarantee that the student finally receives a regular admission to the Program.

Admission of Transfer Students

The admission of transfer students will be considered if they satisfy the Program Admission Requirements.

In order for credit to be granted for studies already realized, candidates will have to request that their university of origin send their official transcript directly to the Office of the Doctoral Program of the campus to which they are requesting admission and they must meet the following conditions:

1. Students who have begun studies for a doctoral degree in Business Administration at another accredited university can transfer up to 15 credits they have passed with grades of A or B, if the

- courses are equivalent to courses offered in the Doctoral Program in Entrepreneurial and Managerial Development of Inter American University of Puerto Rico.
2. Transfer of credits of finished doctoral degrees will not be accepted.
 3. These decisions will be made by the Doctoral Program Director or his counterpart and will be subject to the approval of the Dean of Studies of the campus to which the transfer student will be admitted.
 4. No academic work taken more than 10 years previously will be considered for validation purposes. Each case will be evaluated separately.

Admission of Internal Transfer Students

Students of Inter American University of Puerto Rico, who wish to move to another unit of the System to complete the Doctoral Program Requirements, must satisfy the following:

- a. Have regular student admission to the Program.
- b. Request the transfer of their academic file to the unit to which they wish to transfer.
- c. Have an interview with the Admissions Committee of the Program of the unit to which they wish to transfer.
- d. Present a letter from the Director of the Doctoral Program from which they wish to transfer indicating if they fulfill the academic progress norms of the Doctoral Program and recommending the transfer.

Academic progress

In the Doctoral Program students show their academic progress through the following steps:

- a. Maintain a minimum general index of 3.00.
- b. Pass each one of the specialization courses with a minimum grade of B.
- c. Approval of the comprehensive examinations with a minimum grade of 80 percent.
- d. Admission as a degree candidate.
- e. Selection of the Dissertation Committee.
- f. Defense and approval of a research proposal.

Besides fulfilling the established Academic Progress norms for this Program, students will have to meet the Satisfactory Academic Progress Requirements for Doctoral Programs of the Graduate Catalog.

Comprehensive Examinations

The Doctoral Program in Entrepreneurial and Managerial Development of Inter American University of Puerto Rico requires the approval of the comprehensive examinations in order to request candidacy to the degree.

Prior to requesting admission to candidacy to the degree, students will pass the comprehensive examination and will present a preliminary research proposal. The comprehensive examinations can only be taken after the student has passed every core course maintaining a minimum index of 3.00 and each one of the specialization courses with a minimum grade of B.

The comprehensive examinations will include material related to the Program core courses and to the student's area of specialization.

To be eligible to take the comprehensive examinations, students must satisfy the following requirements:

- a. Be a regular student of the Program.
- b. Have completed all core courses with a general academic index of 3.00 and all the specialization courses with a minimum grade of B.
- c. Have a minimum average of 3.00.

Students will have a maximum of two opportunities to take and pass the comprehensive examination. If after two attempts they do not pass these, the faculty of the Program will evaluate the case and will submit recommendations to the students of the actions that must be taken to satisfy the deficiencies identified in their

examinations. If finally the student does not satisfy these deficiencies and pass the comprehensive examination, the student will not be able to continue in the Program.

Dissertation

The Doctoral Program in Entrepreneurial and Managerial Development of Inter American University of Puerto Rico requires the approval of a doctoral dissertation to confer the degree.

The Dissertation Committee will be integrated by three professors and will be designated by the Program Director in common agreement with the doctoral student, according to the institutional norms. One of the professors will preside over the Dissertation Committee.

In consultation with the Dissertation Committee, the student will select the subject of the dissertation and will prepare the preliminary research proposal. The student will submit this proposal to the Dissertation Committee. Once approved, the Doctoral Program Director will inform the student of admission as a degree candidate.

The Doctoral Program Director will provide the Dissertation Committee with the student file, containing the results of the comprehensive examinations, preliminary research project proposal, record of the student's academic work up to that moment, and any other document of academic relevance to the work of the candidate. The Dissertation Committee will have from that moment on the function of advising and directing the student until the completion of the dissertation.

The dissertation will have to be defended and approved by an oral examination before the Doctoral Dissertation Committee for this requirement to be completed.

Graduation Requirements

Students must meet the following graduation requirements:

1. Pass all courses with a general index of 3.00 or more.
2. Pass each of the specialization courses with a minimum grade of B, maintaining a specialization index of 3.00 or more.
3. Pass the comprehensive examinations in agreement with the requirements established in the Program.
4. Pass the doctoral dissertation defense.

Students must fulfill the requirements for the degree within an eight (8) year period. The Graduate Committee may recommend to the pertinent authorities to extend this term by a period no greater than two (2) years in worthy exceptional cases.

The Metropolitan and San Germán campuses are authorized to offer this Program.

REQUIREMENTS FOR THE DOCTOR OF PHILOSOPHY DEGREE IN ENTREPRENEURIAL AND MANAGERIAL DEVELOPMENT

Core Course Requirements	34 credits
Specialization Requirements	15 credits
Prescribed Distributive Requirements	<u>6 credits</u>
Total	55

Core Course Requirements - 34 credits

BADM	7000	Organizational Theory and Design	3
BADM	7001	Professional Seminar	1
BADM	7010	Enterprise Development	3
BADM	7020	Research Methods	3
BADM	7070	Organizational Behavior	3
BADM	7201	Quantitative Methods I	3
BADM	7202	Quantitative Methods II	3
BADM	7220	Micro Economic Theory	3
BADM	7223	Macro Economic Theory	3

BADM	8950	Research Seminar	3
BADM	8991	Doctoral Dissertation I	3
BADM	8992	Doctoral Dissertation II	3

Specialization in Human Resources (Ph.D.)

Specialization Requirements in Human Resources - 15 credits

Required courses (6 credits):

HURS	7000	Human Resources Management	3
HURS	8070	Human Resources Planning, Recruitment and Selection	3

Select nine (9) credits from the following courses:

HURS	8010	Comparative Administration	3
HURS	8020	Labor Legislation	3
HURS	8040	Initiation of Cooperation between Management and Workers	3
HURS	8075	Compensation Administration	3
HURS	8085	Human Resources Development	3
HURS	8090	Management of Change	3
HURS	8100	Discrimination in Employment	3
HURS	8946	Seminar in Special Topics in Human Resources	3

Specialization in Interregional and International Business (Ph.D.)

Specialization Requirements in Interregional and International Business - 15 credits

Required courses (6 credits):

INBU	7100	Policies and Strategies in International and Global Business	3
INBU	8210	Theory of International Business	3

Select nine (9) credits from the following courses:

INBU	7120	Global Marketing	3
INBU	7130	Multinational and Global Management and Strategy	3
INBU	7140	Communication and Intercultural Negotiation in International Business	3
INBU	8170	International Finance	3
INBU	8946	Seminar in Special Topics in Interregional and International Business	3
ECON	8150	Economic Development	3

Prescribed Distributive Requirements - 6 credits

6 credits selected from the following courses:

BADM	7225	Managerial Economics	3
BADM	797A	Special Topics Seminar on Entrepreneurial and Managerial Development	3
BADM	797B	Special Topics Seminar in Management Information Systems	3
BADM	797C	Special Topics Seminar in Accounting	3
BADM	797D	Special Topics Seminar in Marketing	3
BADM	797E	Special Topics Seminar in Finances	3
BADM	797_	Special Topics Seminar	3
ECON	7200	Labor Economy	3
ECON	8000	Economy of the Labor Market Structure	3
HURS	8050	Labor Negotiations	3
HURS	8060	High Technology Management	3

Note: In order to finish the Doctoral Dissertation the student must register in BADM 8992 (1 credit) Doctoral Dissertation Continuation, up to a maximum of three (3) credits.

Environmental Evaluation and Protection (M.S.)

This Program aims to prepare competent professionals who master the scientific concepts pertinent to environmental evaluation and protection. They also will be able to evaluate and recommend actions directed to the prevention, management and solution of environmental problems. The Program aspires to train professionals who may implement measures that will permit compliance with the public policy related to the environment and based on strategies of sustainable development. The integration of social, economic, political and cultural factors is taken into account within an ethical frame.

Admission Requirements

In addition to the admission requirements established in the Graduate Catalog, the student must have passed with a C grade or above, at least one course in each of the following disciplines or their equivalents:

Micbiology
Chemistry
Statistics

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN ENVIRONMENTAL EVALUATION AND PROTECTION

Specialization Requirements 29 credits

Specialization Requirements - 29 credits

ENEP	5110	Environmental Pollutants and their Control	2
ENEP	5223	Methods of Biological Environmental Analysis	2
ENEP	5225	Methods of Chemical Environmental Analysis	2
ENEP	5310	Environmental Planning and Management	3
ENEP	5945	Environmental Toxicology	3
ENEP	6110	Environmental Bioremediation	2
ENEP	6200	Environmental Research	3
ENEP	6230	Control and Management of Hazardous Wastes	3
ENEP	6330	Environmental Laws	3
ENEP	6970	Environmental Seminar	3
ENEP	6980	Environmental Research Project	3

Environmental Science (M.S.)

The Master of Science Degree in Environmental Sciences has the objective of preparing professionals that can, in the measure possible, anticipate the result of an action in economic and environmental protection with a reasonable amount of certainty and based on empirical experience and ethic values. The Program will promote investigation. It will serve as an instrument to advance knowledge about the necessities and real condition of our environment.

The Program is conducive to a Master of Science Degree in Environmental Sciences and offers three specializations: Environmental Biology, Environmental Chemistry and Water Resources and Unit Operations. It is directed to students that have obtained a Bachelor's degree in Science, Engineering or other disciplines. All candidates must fulfill the Program admission requirements.

The area of environmental sciences is of vital importance for contemporary society and the Program aspires to prepare professionals that show or demonstrate the following characteristics:

1. A scientific attitude towards problems,
2. An attitude of acceptance of the education, scientific investigation and the application of concepts of pure science as tools to change attitudes and for successful environmental conservation.
3. Experience in the use and/or the application of available technology to resolve and/or understand the environmental problems in Puerto Rico and to compare them to those of other countries.
4. Knowledge of the cultural social and ethic factors which influence or determine the environmental problems in Puerto Rico.
5. Positive attitude towards the development or implementation of technology necessary to resolve environmental problems.
6. Possess skills for decision making based on scientific background about issues related to conservation, the development, and the use of natural resources.
7. Possess skills and abilities necessary to become a leader in the environmental sciences.
8. Have a positive attitude towards the development of investigative skills as tools for the control of environmental deterioration and the development of economic planning.

Admission Requirements

Students that apply to the Master of Science Degree in Environmental Sciences must fulfill the admission requirements of Master Degree Programs with the following modifications:

1. Have a Bachelor of Science Degree in Engineering or other discipline from an accredited university as long as the candidate complies with the other requisites mentioned below.
2. Have approved Chemical Analysis courses.
3. Have completed a Bachelor's degree with a grade point index of 2.50 in the last 60 credits in academic work and 2.50 average in the major.
4. Present the results of the Graduate Record Examination (GRE) or an equivalent within the last five (5) years prior to the admission application date.

The San Germán Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN ENVIRONMENTAL SCIENCES

Core Course Requirements	* a minimum of 21 credits
Specialization Requirement	12 credits
Prescribed Distributive Requirements	<u>6</u> credits
	Total*a minimum of 39

Core Course Requirements - 21 credits minimum*

EVSC	5010	Environmental Chemistry	3
EVSC	5020	Biostatistics	3
EVSC	5030	Environmental Health	3
EVSC	5040	Urban Ecology	3
EVSC	6101	Investigation Methods Applied to Environmental Sciences I	3
EVSC	6102	Investigation Methods Applied to Environmental Sciences II	3
EVSC	699_	Thesis	3

***These minimums apply to students who finish their thesis in the first course (EVSC 699A).**

Specialization Requirements - 12 credits

The student must select one of the following three specializations, Environmental Biology, Environmental Chemistry, Water Resources and Unit Operations.

Specialization in Environmental Biology (Environmental Sciences)

EVSC	5110	Environmental Ecology	3
EVSC	5180	Limnology	3
EVSC	5200	Environmental Biology	3
EVSC	5510	Risk Assessment	3

Specialization in Environmental Chemistry (Environmental Sciences)

EVSC	5100	Biochemistry	3
EVSC	5165	Environmental Instrumentation	3
EVSC	5275	Environmental Toxicology	3
EVSC	5515	Disposal of Contaminants	3

Specialization in Water Resources and Unit Operations (Environmental Sciences)

EVSC	5250	Control of Contaminants and Current Analysis	3
EVSC	5255	Water Analysis and Contamination	3
EVSC	5310	Water Treatment: Chemical and Physical Operations Unit	3
EVSC	5330	Water Treatment: Biological Operations Unit	3

Prescribed Distributive Requirements

Students should take six (6) credits from the following courses in accord with their specialization and the approval of the Advisory Committee.

EVSC	5050	Environmental Problems of Puerto Rico	3
EVSC	5100	Biochemistry	3
EVSC	5105	Geographic Information Systems and Applications in Environmental Sciences	3
EVSC	5110	Environmental Ecology	3
EVSC	5115	Epidemiology	3
EVSC	5165	Environmental Instrumentation	3
EVSC	5180	Limnology	3
EVSC	5200	Environmental Biology	3
EVSC	5220	Environmental Microbiology	3
EVSC	5225	Sanitary Microbiology	3
EVSC	5245	Techniques in Microbial Genetics	3
EVSC	5250	Control and Current Analysis	3
EVSC	5255	Water Analysis and Contamination	3
EVSC	5275	Environmental Toxicology	3
EVSC	5285	Puerto Rican Policy Regulations	3
EVSC	5310	Water Treatment: Operations of Chemical and Physical Units	3
EVSC	5515	Disposal of Contaminants	3

Fine Arts (M.F.A.)

The Master in Fine Arts program has the objective of helping professional artists to developing their artistic capacities to the maximum in the medium that they have selected as their area of study. The Program promotes the development of students' own style and propitiates creative labor within a framework of conceptual maturity with full awareness of the place, time and space in which it is performed.

Since the Master in Fine Arts program is a terminal degree it aims to develop performance and aptitudes of the highest quality in the graduates.

The curriculum is geared to students who have obtained a Bachelor in Fine Arts degree or in other disciplines provided the candidates meet the admission requirements established by the Program.

This Program requires a creative project as one of the requirement for graduation.

Students may opt for one of the following specialization: ceramics, drawing, painting, photography, printmaking and sculpture.

Students have seven years to complete their study program.

General Competencies

Graduates of this Program are expected to show knowledge of:

- The philosophical, political and social theories that influence the rise and development of artistic movements.
- The pertinent technique for their particular area of study and its plastic qualities for artistic expression.
- The techniques for creating, preparing, exhibiting and defending an artistic work which constitutes their creative project.

Graduates from the Program will show ability to:

- Expand knowledge in the handling of tools, materials and specialized equipment necessary for performing artistic work
- Analyze, compare and evaluate philosophical and social theories that influence the development of art
- Evaluate and make decisions regarding appropriate techniques for artistic creation
- Use new technology, particularly the computer, for creating artistic works
- Make critical analyses of the theoretical approaches that permit the understanding and appreciation of the expressive qualities of visual arts.

Graduates from the Program will demonstrate the aptitude to:

- Recognize theories regarding the relationship between human beings and society and how art serves as a mirror of society
- Develop their own style that may be perceived in their artistic works within a framework of conceptual maturity
- Recognize, in a critical manner, the conceptual components that guide and motivate their work so they may be able to present and defend their aesthetic proposal
- Develop an artistic work with full awareness of the place, time and space in which it is created.

Admission Requirements

In addition to meeting the requirements established in the section “Admission Requirements for Masters’ Programs” of this Catalog, students who apply for admission to the Master in a Fine Arts program must meet the following requirements:

Artistic Requirements

Submit a portfolio of at least twenty images in electronic format of your works of art for evaluation by a committee.

Academic Requirements and other documents

- Students requesting admission to this program will be exempt from taking standardized admission tests.
- Possess a Bachelor in Fine Arts degree from an accredited college or university, or
- Possess a Bachelor's Degree from an accredited college or university, have six credits in History of Art and nine credits in the specialization area they apply for, with a minimum grade of B.

- Have completed the Bachelor's degree with a minimum general grade index of 2.50 in the last 60 credits of academic work and with minimum general grade index of 3.00 in the major.

Conditional Admission

In worthy cases, the Admissions Committee of the Program may recommend a conditional admission to a candidate who does not fulfill some of the academic requirements of admission when submitting the application.

Academic Progress Requirement

In addition to the academic progress requirements for Masters Degrees, established in the Graduate Catalog, students must fulfill the following academic progress requirement:

Once the course ARTS 6974 has been approved, students must select the Creative Project Committee.

The San Germán Campus is authorized to offer this Program.

Graduation Requirements

In addition to the graduation requirements for Masters Degrees, established in the Graduate Catalog, students must fulfill the following graduation requirements:

1. Have a general academic index of 3.00 or more.
2. Approve all courses with a minimum grade of B.
3. Have approved courses ARTS 6996 - Creative Project I and ARTS 6997 - Creative Project II.
4. Have approved the public presentation of the Creative Project.
5. Submit to the office of the Program of Plastic Arts two copies of the written description of the Creative Project.

REQUIREMENTS FOR THE MASTER IN FINE ARTS DEGREE

Foundation Requirements in Fine Arts	24 credits
Specialization Requirements	24 credits
Prescribed Distributive Requirements	9 credits
Elective Courses	<u>3</u> credits
Total	60

Foundation Requirements in Fine Arts -24 credits

A. General - 15 credits

ARTS	5980	History of Puerto Rican Art	3
ARTS	6964	Seminar: Practice, Theory and Critique of Art	3
ARTS	6971	Concept and Theme in the Plastic Arts Proposal	1
ARTS	6972	Documentation and Research in the Plastic Arts Proposal	1
ARTS	6974	Concept and Composition in the Artistic Proposal	1

Six credits of Creative Project I and II according to the specialization

ARTS	6995C	Creative Project I: Ceramics	
ARTS	6995D	Creative Project I: Drawing	
ARTS	6995E	Creative Project I: Sculpture	
ARTS	6995F	Creative Project I: Photography	
ARTS	6995G	Creative Project I: Printmaking	
ARTS	6995P	Creative Project I: Painting	3

ARTS	6995C	Creative Project II: Ceramics	
ARTS	6995D	Creative Project II: Drawing	
ARTS	6995E	Creative Project II: Sculpture	
ARTS	6995F	Creative Project II: Photography	
ARTS	6995G	Creative Project II: Printmaking	
ARTS	6995P	Creative Project II: Painting	3

B. History of Art and Theory - 12 credits

Twelve credits from the following courses.

ARTS	5135	Art and Public Policy	3
ARTS	5140	Philosophy of Art	3
ARTS	6010	History of Ancient Art	3
ARTS	6020	History of Medieval Art	3
ARTS	6030	History of Renaissance and Baroque Art	3
ARTS	6040	History of Modern Art	3
ARTS	6050	History of Oriental Art	3
ARTS	6060	History of Pre-Columbian Art	3
ARTS	6070	History of Latin American Art	3
ARTS	6080	History of Contemporary Art	3
ARTS	6940	Seminar in Art Administration	3
ARTS	6944	Seminar in Museology	3
ARTS	6954	Seminar in Gallery Administration	3
ARTS	6973	Special Problems III	3

Specialization Requirements - 24 credits

Students will select one of the six specializations offered by the Master in Fine Arts Program. The advanced studies in the specializations should be taken in sequence until six credits per level have been taken.

Specialization in Ceramics (Fine Arts)

ARTS	6(111-115)	Advanced Ceramics I	2-6
ARTS	6(121-125)	Advanced Ceramics II	2-6
ARTS	6(131-135)	Advanced Ceramics III	2-6
ARTS	6(141-145)	Advanced Ceramics IV	2-6

Specialization in Drawing (Fine Arts)

ARTS	6(411-415)	Advanced Drawing I	2-6
ARTS	6(421-425)	Advanced Drawing II	2-6
ARTS	6(431-435)	Advanced Drawing III	2-6
ARTS	6(441-445)	Advanced Drawing IV	2-6

Specialization in Painting (Fine Arts)

ARTS	6(311-315)	Advanced Painting I	2-6
ARTS	6(321-325)	Advanced Painting II	2-6
ARTS	6(331-335)	Advanced Painting III	2-6
ARTS	6(341-345)	Advanced Painting IV	2-6

Specialization in Photography (Fine Arts)

ARTS	6(611-615)	Advanced Photography I	2-6
ARTS	6(621-625)	Advanced Photography II	2-6
ARTS	6(631-635)	Advanced Photography III	2-6
ARTS	6(641-645)	Advanced Photography IV	2-6

Specialization in Printmaking (Fine Arts)

ARTS	6(211-215)	Advanced Printmaking I	2-6
ARTS	6(221-225)	Advanced Printmaking II	2-6
ARTS	6(231-235)	Advanced Printmaking III	2-6
ARTS	6(241-245)	Advanced Printmaking IV	2-6

Specialization in Sculpture (Fine Arts)

ARTS	6(511-515)	Advanced Sculpture I	2-6
ARTS	6(521-525)	Advanced Sculpture II	2-6
ARTS	6(531-535)	Advanced Sculpture III	2-6
ARTS	6(541-545)	Advanced Sculpture IV	2-6

Distributive Descriptive Requirements - 9 credits

Nine (9) credits selected from the advanced courses in a medium other than the student's specialization.

History of the Americas (M.A., Ph.D. and Combined Program)

General Description

The main purpose of this three-year Program of graduate study is to achieve the rigorous preparation in the development of historical research skills through curriculum. The fundamental aim of the Program is to develop specialists in Historical Research, who are highly competent, cognizant and committed to intellectual and historical development.

Master's Program (M.A.)

This Program integrates history as the base for critical, analytical and creative research that will facilitate the understanding of political, economic, social, religious, artistic, literary and philosophical aspects to help recognize and identify reality and to seek alternatives to historical problems. The formation accessible through this specialization will enable the professional to work with investigative aspects in the area of history.

Admission Requirements

For admission to the masters program, students must:

1. Have a bachelor's degree in History, in Education in Social Studies and History, Political Science or in other related areas.
2. Take 12 credits in history, including the following courses, if their bachelor's degree is in other areas:
 - a. HIST 4020 Historiography
 - b. HIST 4210 Historical Research

3. Have passed a course in a modern language other than English and Spanish with a minimum grade of C.
4. Be interviewed by the Admissions Committee of the Combined Program and be recommended favorably by it.

Graduation Requirements

1. Complete all course requirements with a minimum grade of 3.00.
2. Complete the thesis satisfactorily.

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN HISTORY

Core Course Requirements		21 credits
Specialization Requirements		9 credits
Elective Courses		<u>6 credits</u>
	Total	36

Core Course Requirements - 21 credits

HIST	5000	History of the Aboriginal Cultures in the Americas	3
HIST	5005	History of Puerto Rico, 1800-1898	3
HIST	5010	International Relations between the United States and Puerto Rico, 19th. – 21st. Centuries	3
HIST	5015	Medieval Institutions of America	3
HIST	5020	Slavery in the Americas	3
HIST	6005	Puerto Rican Historiography	3
HIST	6020	Historiography of the Americas	3

Specialization Requirements - 9 credits

HIST	6000	Colonization, Society and Culture of the Spanish Antilles, 16th –18th Centuries	3
HIST	6010	Methodologies for Historical Research	3
HIST	6990	Thesis (If the student does not continue for the doctoral degree)	3

Elective courses - 6 credits

The student must pass 6 additional credits in courses at the master’s level.

Doctoral Program (Ph.D.)

This Program integrates research to history as a fundamental basis to promote learning and historical development. It uses technology to identify and strengthen the area. It will develop new strategies that facilitate analytical processes in order to foment and address reality and historical truth in today’s world, particularly in the Americas.

Admission Requirements

For admission to the doctoral program, students with a master’s degree must:

1. Have a Master’s Degree in History or its equivalent from an accredited university with a minimum academic index of 3.00.
2. Take the following courses if their master’s degree is in related areas:
 - a. HIST 6005 Puerto Rican Historiography

- b. HIST 6010 Methodologies for Historical Research
- 3. Have approved a course of a modern language different from English and Spanish and with a minimum grade of C.
- 4. Students who have a master's degree in areas unrelated to History must approve courses HIST 6005 and 6010 and nine additional credits at the Master's level in History of America. Their admission is conditional until they take the courses.
- 5. Be interviewed by the Admissions Committee of the combined Program and to be recommended favorably by it.

Graduation Requirements

- 1. Complete all course requirements with a minimum grade of 3.00.
- 2. Pass the doctoral comprehensive examination prior to the defense of the doctoral dissertation.
- 3. Complete the doctoral dissertation satisfactorily.

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR THE DOCTORATE IN PHILOSOPHY AND LETTERS IN HISTORY

Core Course Requirements in addition to the 21 credits required for the Master's Degree		12 credits
Specialization Requirements		9 credits
Elective Courses		<u>9 credits</u>
	Total	30

Core Course Requirements - 12 credits

HIST	7000	Popular Culture and Nationalism in Latin America	3
HIST	7005	Islamic Societies in the 20th. Century	3
HIST	7010	Heritage of Russian and the Soviet Union	3
HIST	7015	The United States and Globalization	3

Specialization Requirements - 9 credits

HIST	8970	Historical Research Methodology	3
HIST	8980	Doctoral Dissertation Proposal	3
HIST	8990	Dissertation	3

Elective courses - 9 credits

Students will choose elective courses from the different options of courses with codes of HIST 797_ or doctoral level courses from another discipline.

The student will have the option of completing the Doctoral Degree if admitted to the Combined Masters and Doctoral Program. In the Combined Program students are exempt from taking the course HIST 6990 (Thesis) and six (6) elective credits at the master's level.

REQUIREMENTS FOR THE OF DOCTOR IN PHILOSOPHY AND LETTERS DEGREE IN HISTORY FOR THE COMBINED MASTERS-DOCTORAL PROGRAM

Core Course Requirements		30 credits
Specialization Requirements		18 credits
Elective Courses		<u>9 credits</u>
	Total	57

Core Course Requirements - 30 credits

HIST	5000	History of the Aboriginal Cultures in the Americas	3
HIST	5005	History of Puerto Rico, 1800-1898	3
HIST	5010	International Relations between the United States and Puerto Rico, 19th. – 21st.Centuries	3
HIST	5015	Medieval Institutions of America	3
HIST	5020	Slavery in the Americas	3
HIST	6005	Puerto Rican Historiography	3
HIST	6020	Historiography of the Americas	3
HIST	7005	Islamic Societies in the 20th.Century	3
HIST	7010	Heritage of Russian and the Soviet Union	3
HIST	7015	The United States and Globalization	3

Specialization Requirements - 18 credits

HIST	6000	Colonization, Society and Culture of the Spanish Antilles, 16th –18th Centuries	3
HIST	6010	Methodologies for Historical Research	3
HIST	7000	Popular Culture and Nationalism in Latin America	3
HIST	8970	Historical Research Methodology	3
HIST	8980	Doctoral Dissertation Proposal	3
HIST	8990	Dissertation	3

Elective courses - 9 credits

Students will choose elective courses from the different options of courses with codes of HIST 797_ or doctoral level courses from another discipline.

International Business (M.I.B.)

The program in International Business aims to develop the competencies that contribute to managerial preparation in the international field. The different operational areas affecting business transactions at the global level, such as economy, accounting, laws and commercial exchange, etc. are studied. This knowledge is coupled with mathematical skills, research, cultural communication, negotiations and field experiences.

Admission Requirements

Students requesting admission to the Master's Degree in International Business Program must:

1. Meet the requirements established in the section "Admission Requirements for Masters' Programs" of this Catalog.
2. Have completed a bachelor's degree in Business Administration with a grade point index of at least 2.50 in the last 60 credits.
3. Provide evidence of having passed the following courses or their equivalent at the bachelor's level. All students requesting admission who take these courses must pass them with a grade of A or B in order to comply with the requirement.

Principles of Economics	6 credits
Marketing Management	3 credits
Marketing Finance	3 credits
Introduction to Accounting I and II	8 credits
Managerial Communication	3 credits
Basic and Managerial Statistics	6 credits

4. Present the results of the "Examen de Admisión a Estudios de Posgrado (EXADEP)" or an equivalent examination with a minimum score of 450.

5. Demonstrate a reasonable mastery of oral and written expression in Spanish and English.

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF INTERNATIONAL BUSINESS DEGREE

Specialization Requirements	39 credits
Prescribed Distributive Requirements	<u>6</u> credits
Total	45

Specialization Requirements - 39 credits

INBS	5000	Intercultural Negotiation and Communication in International Business	3
INBS	5010	Applied Technology in International Business	3
INBS	5020	International Macroeconomy	3
INBS	6000	International Business Management	3
INBS	6010	International Business Law	3
INBS	6030	International Business Exchange: Theory and Policy	3
INBS	6210	Research Methods in International Business	3
INBS	6910	Internship	3
INBS	6970	Seminar: Business Environment and Administrative Practices of the Caribbean and Latin America	3
INBS	6990	Project in Consulting/ Research in Business	3
BADM	6200	International Business Finance	3
BADM	6220	Monetary Theory and Policy	3
BADM	6390	Global Marketing	3

Prescribed Descriptive Requirements - 6 credits

Students must select two courses from the following:

BADM	5010	Quantitative Methods for Decision-Making	3
BADM	5040	Accounting for Managers	3
BADM	5060	Managerial Information Systems	3

International Business Administration (M.I.B.A.)

The Masters in International Business Administration deals with the administration of organizational resources in an international environment and is designed for graduates from programs of accredited Postsecondary Institutions, desiring to complete a program based on the study, analysis, consideration and application of managerial theories and practices in the current international environment. The Program integrates technology, business processes in other countries, international regulations and laws and the function of Accounting, Human Resources, Marketing and Finance in an international frame.

The Program aims to develop leaders in International Administration through competencies based on research and problem analysis and evaluation that lead to the development of organizational goals, objectives and strategies in a multinational environment. The Program will offer the student a broad and critical vision of the international component in a company and a fundamental understanding of the problems faced. In addition, it will give attention to the profile of company administration professionals with skills and knowledge not contemplated in their area of specialization at the undergraduate level. These areas include Human Resources, Accounting, Marketing and Finance. This Program offers a new dimension in local and international employability, the development of critical and analytical thinking for decision making, the performance of functions with ethical and moral principles, the capacity for self employment and the globalization and economic integration of countries involved in commerce and their impact on the local environment.

The Program is based on a practical approach, by adjusting and applying its requirements to the development of a special project that will impact sectors of private or governmental enterprises within the selected specialization. It

presents a group of integrated experiences to direct the attention of participants in important matters in business administration with an international focus, which also contribute to the improvement of performance of local organizations. Students will take the course IBAD 6971 Special Project in International Business in which the student, together with advisory professor, is required to select either a functional project in a business or agency, or a research project.

The Barranquitas Campus is authorized to offer the specialization in Accounting.

The Ponce Campus is authorized to offer all specializations of this Program through classroom and distance learning.

Admission Requirements

In addition to the admission requirements established in the Graduate Catalog, students in this Masters Program must meet the following Program requirements:

Students whose baccalaureate is not in Business Administration must:

1. Have passed six (6) credits in Micro and Macro Economics, six (6) credits in Statistics and six (6) credits in Accounting with a minimum grade of “C”.
2. The Accounting specialization requires that students pass courses ACCT 2051 and 2052 Intermediate Accounting I and II, ACCT 3451 Advanced Accounting I, or equivalent courses at the baccalaureate level with a minimum grade of “C”.
3. The Finance specialization requires that students pass FINA 3100 Managerial Finance and FINA 4100 International Finance or equivalent courses at the baccalaureate level with a minimum grade of “C”.
4. Attend an orientation session.

REQUIREMENTS FOR THE MASTER IN INTERNATIONAL BUSINESS DEGREE

Core Course Requirements		30 credits
Specialization Requirements		<u>12</u> credits
	Total	42

Core Course Requirements - 30 credits

IBAD	5100	Research in the International Environment	3
IBAD	5110	Strategic International Administration	3
IBAD	5210	Information Systems and Electronic Commerce	3
IBAD	5320	Global Environment of Business	3
IBAD	5410	International Distribution	3
IBAD	6971	Special Project in International Business Administration	3
BADM	5040	Accounting for Managers	3
BADM	6390	Global Marketing	3
BADM	5190	Managerial Finance I	3
BADM	6780	The Manager in International Economics	3

Note: Exemption of Prerequisite

Students of this Masters Degree are exempt from taking the course BADM 5090 Marketing Management as a prerequisite of course BADM-6390 Global Marketing because the international aspect of course BADM 6390 is suitable for this Program that has a totally international approach

Specialization in Accounting (M.I.B.A.)

Specialization Requirements for Accounting - 12 credits

ACCT	6410	International Accounting	3
ACCT	6420	International Financial Statements and their Analysis	3

ACCT	6430	Advanced Internal Auditing	3
ACCT	6440	Forensic Accounting	3

Specialization in Finance (M.I.B.A.)

Specialization Requirements for Finance - 12 credits

FINA	6310	International Financial Administration	3
FINA	6420	International Financial Markets	3
FINA	6430	International Analysis of Investment Portfolios	3
BADM	6200	International Business Finance	3

Specialization in Human Resources (M.I.B.A.)

Specialization Requirements for Human Resources - 12 credits

BADM	6010	Human Resources Management in the International Environment	3
BADM	6415	International Administration of Salaries, Benefits and Services	3
BADM	6510	International Labor Economics	3
LARE	6410	Comparative Labor Relations	3

Specialization in Marketing (M.I.B.A.)

Specialization Requirements for Marketing - 12 credits

MKTG	6410	Integrated Communication of International Marketing	3
MKTG	6420	Strategic Planning of International Marketing	3
MKTG	6430	Consumer Behavior at the International Level	3
MKTG	6440	Electronic Marketing	3

Labor Relations (M.A.)

The Masters of Arts Program in Labor Relations integrates the theoretical, technical and legal aspects related to labor relations, human resource management and the practice of the Labor Relations profession. The Program entails a background of human relations in labor conflict resolution. In addition, it aims to train enterprising professionals and leaders who may work in organizations, to make the solution of situations that affect the work world feasible.

In addition to meeting the requirements established in the section “Admission Requirements for Masters’ Programs” of this Catalog, candidates for admission to this Program must have passed the following undergraduate courses (or their equivalent):

MAEC	2212	Principles of Economics (MACRO)	3
PSYC	1051	General Psychology I	3
SOCI	2030	Introduction to Sociology	3

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN LABOR RELATIONS

Core Course Requirements	21 credits
Specialization Requirements	12 credits
Prescribed Distributive Requirements	<u>3</u> credits
Total	36

Core Course Requirements - 21 credits

LARE	5001	Research Methods in Labor Relations	3
LARE	5010	Collective Bargaining in the Public and Private Sector	3
LARE	5200	Labor Statistics	3
LARE	5400	Labor Legislation	3
LARE	5410	History and Philosophy of Labor Movements	3
LARE	6440	Mediation, Conciliation and Labor Arbitration	3
BADM	5100	Organizational Theory and Behavior	3

Specialization Requirements - 12 credits

LARE	6975	Integrating Seminar in Labor Relations	3
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Nine (9) credits from the following:

LARE	5300	Labor Economics	3
LARE	5420	Labor Relations in the Public Sector	3
LARE	6300	Protective Work Legislation	3
LARE	6410	Comparative Labor Relations	3
LARE	6450	Job Discrimination	3
BADM	6080	Salary Administration	3

Prescribed Distributive Requirements – 3 credits

Three (3) credits from the following:

BADM	6070	Human Resource Administration	3
BADM	6090	Supervision and Leadership	3
LARE	6430	New Organizational Work Patterns	3

Library and Information Sciences (M.L.S.)

This Program aspires to prepare students to hold positions as professional librarians. Through the Program, students recognize the importance of strengthening the profession of librarian in aspects of professional leadership, knowledge and the necessary attitudes for improving library and information center services.

Graduates of the Program will qualify for certification from the Department of Education if they have a minimum of two years satisfactory experience as a librarian teacher.

In addition to meeting the requirements established in the section “Admission Requirements for Masters’ Programs” of this Catalog, a statistics course is required for admission to the Library and Information Sciences Program.

The San Germán Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF LIBRARY AND INFORMATION SCIENCES DEGREE

Specialization Requirements	33 credits
Prescribed Distributive Requirements	<u>6 credits</u>
Total	39

Specialization Requirements - 33 credits

LISC	5000	Library Fundamentals and Information Sciences	3
LISC	5180	Computer Applications in the Library	3

LISC	5200	Information Service and Documentation	3
LISC	5300	Cataloging and Bibliographic Description	3
LISC	5350	Subject Classification and Indexing	3
LISC	5390	Control and Handling of Serial Publications	
		or	
LISC	6460	Development of Collections and Services for Children, Young People and Adults	3
LISC	5450	Collection Acquisition, Development and Evaluation	3
LISC	6150	Administration of School Libraries	
		or	
LISC	6710	Services in Academic Libraries and Documentation Centers	3
LISC	6250	Research Methods Applied to Library and Information Services	3
LISC	6350	Educational Technology: Use, Production and Evaluation	3
LISC	6910	Internship in Libraries	3

Prescribed Distributive Requirements - 6 credits

Six (6) credits to be selected from the following courses with approval of the Director of the Department.

LISC	5250	Documentation and Database for the Humanities	1
LISC	5260	Documentation and Database for the Behavioral Sciences	1
LISC	5270	Documentation and Database for the Natural Sciences	1
LISC	5370	Special Problems in Descriptive Cataloging	3
LISC	6750	Bibliographic Instruction	3
LISC	6980	Independent Study	1 - 3

Medical Technology (M.S.)

The curriculum of the Master of Science Program in Medical Technology is designed to further develop knowledge and the skills in the medical technology areas, modern instrumentation, the teaching of peers, clinical laboratory administration and in the field of molecular microbiology.

The specialization in Molecular Microbiology develops skills in the application of molecular techniques and promotes knowledge to enable the medical technologist to offer services in the areas of molecular diagnosis and biotechnology.

The specialization in Clinical Laboratory Administration is designed to give students the professional competencies to manage the laboratory and make administrative decisions in matters related to it

In addition to meeting the admission requirements for masters programs, the student must:

1. Have a baccalaureate in Science in Medical Technology (BSMT) or a certificate in Medical Technology from an accredited institution of higher education.
2. Present evidence of vaccination against Hepatitis B.

To obtain the Master of Science Degree in Medical Technology with a specialization in Molecular Microbiology or Laboratory Administration, the student must approve a total of thirty-nine (39) credits: eighteen (18) credits in core courses, fifteen (15) in the area of specialization and six (6) prescribed distributive requirements. A comprehensive examination is also required.

Students must approve a clinical practice, except in the case of those who choose and pass courses MEDT 6991: Thesis I and MEDT 6992: Thesis II, as prescribed distributive requirements.

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN MEDICAL TECHNOLOGY

Core Course Requirements	18 credits
Specialization Requirements	15 credits
Prescribed Distributive Requirements	<u>6 credits</u>
Total	39

Core Course Requirements - 18 credits

MEDT	5510	Molecular Microbiology	3
MEDT	5520	Advanced Clinical Biochemistry	3
MEDT	5550	Clinical Laboratory Administration	3
MEDT	6370	Biostatistics	3
MEDT	6970	Research Seminar	3
EDUC	6057	Teaching Models and Strategies	3

Specialization Requirements - 15 credits in one area

Specialization in Laboratory Administration (Medical Technology)

MEDT	6310	Supervision of Human Resources in the Clinical Laboratory	3
MEDT	6320	Administration of Finances in the Clinical Laboratory	3
MEDT	6340	Quality Systems in the Clinical Laboratory	3
MEDT	6350	Legal Aspects in the Exercise of Medical Technology	3
MEDT	6975	Seminar on Administration of the Clinical Laboratory	3

Specialization in Molecular Microbiology (Medical Technology)

MEDT	6040	Immunotechnology	3
MEDT	6100	Molecular Aspects in Epidemiology and Diagnosis of Infectious Diseases	5
MEDT	6111	Molecular Techniques Laboratory I: Principles of Molecular Genetics	3
MEDT	6112	Molecular Techniques Laboratory II: Applications of Molecular Diagnosis	3
MEDT	6973	Bioinformatics Seminar	1

Prescribed Distributive Requirements - 6 credits

Students from both specializations will take six (6) credits from the following courses:

MEDT	5530	Advanced Clinical Hematology	3
MEDT	5540	Advanced Clinical Immunohematology	3
MEDT	5970	Special Topics	1-6
MEDT	6030	Advanced Parasitology	3
MEDT	6090	Modern Techniques in the Microbiology and Industrial Laboratory	3
MEDT	6230	Instrumentation and Automation in Clinical Chemistry	3
MEDT	6360	Computers and Information Systems in the Clinical Laboratory	3
MEDT	6991	Thesis I	3
MEDT	6992	Thesis II	3

Music Education (M.A.) Metropolitan Campus

The main purpose of this two (2) year Program is to improve the preparation, teaching techniques and methodology of music teachers of the public and private school systems of Puerto Rico. This rigorous and highly specialized technical preparation is complemented with history of the music education courses compared with the history of music education in Puerto Rico. The fundamental aim of the Program is to develop a highly competent music teacher who is aware of and committed to the intellectual and musical development of students, thus raising the level of music education in the island.

Specific Admission Requirements

1. Have a Baccalaureate in Music, Baccalaureate in Arts in Music or a Baccalaureate in Music Education.
2. Have an interview with a jury of three (3) faculty members of the Master of Arts in Music Education Program.
3. Satisfactorily pass entrance examinations to the Master of Arts in Music Education Program in the areas of Music Theory and the principal instrument.
4. Write an essay in which students explain their music education philosophy and their goals upon requesting admission to the Program.

Students of the Program who show deficiencies in their musical skills will be required to take additional courses from the Bachelors Program in Popular Music. These courses must be taken before completing nine (9) credits leading to the Masters of Arts Degree in Music Education.

The Metropolitan Campus is authorized to offer this Program

REQUIREMENTS OF THE MASTERS IN ARTS IN MUSICAL EDUCATION

Core Course Requirements	21 credits
Specific Requirements	6 credits
Directed Elective Courses	<u>6</u> credits
Total	33

Core Course Requirements - 21 credits

MUED	5100	Research Techniques in Music Education	3
MUED	5101	Philosophy of Music Education	3
MUED	5102	Comparative History of Music Education	3
MUED	5103	Seminar in Music Education at the Elementary Level	3
MUED	5104	Seminar in Music Education at the Secondary Level	3
MUED	5105	Measurement, Assessment and Evaluation of Music Learning	3
MUED	5106	Technology and Instructional Design	3

Specific Requirements - 6 credits

MUED	6691	Thesis Seminar	3
MUED	6692	Thesis in Music Education*	3

* Note: Student will repeat course MUED 6692 Thesis in Music Education until they complete their thesis requirement for the master's degree.

Directed Elective Courses - 6 credits

MUED	5200	Musical Analysis Techniques	3
MUED	5201	History of Puerto Rican Music	3
MUED	5202	Music of the World	3

Music Education (M.A.) San Germán Campus

The main aim of this program is to offer a program of studies of the highest quality that is at the vanguard of knowledge in the subject. It has the objective of providing the intellectual and creative development of the students who will be leaders in the teaching field and committed to the tradition of music as well as to its evolution and

teaching. Graduates from this program will be persons prepared in all facets of music; its teaching, historical background, development and its aesthetic sense and interpretation.

The program consists of three components: Core Course Requirements, Specialization Requirements in Music Education and Prescribed Distributive Requirements. The core component focuses on general conceptual courses to expose students to the diversity of aspects related to music, whereas the specialization component deals more with specific formation within the field of the music education. In the prescribed distributive component students will be able to explore other areas of music of their preference or may opt for a special research project or a special creative project. The number of required credits to complete this master's degree compares favorably with the masters in music degrees offered in universities in the United States.

Admission Requirements

Students requesting admission to the Masters of Arts in Music Education program must meet the admission requirements for masters programs established in the current Graduate Catalog. In addition, they must meet the following particular requirements:

1. Have an interview with an Admissions Committee.
2. Have one of the following:
 - A Baccalaureate degree in Music Education
 - A Baccalaureate degree with a major in Music and 12 credits in foundations of education or music education *.
 - A Baccalaureate degree and Music Teacher Certification from the Department of Education of Puerto Rico
 - A Baccalaureate degree and 24 credits in music and 12 credits in foundations of education or music education *.

* The 12 credits must include areas such as: foundations, philosophy, history, learning theories, evaluation, curriculum, or methodology.

Note: All students admitted to the Program must take a placement test before beginning their first semester to determine their sequence of courses.

Admission of Transfer Students

Students requesting admission as transfer students must meet the requirements of the current Graduate Catalog and the specific requirements of the program.

Graduation Requirements

All candidates for graduation with a Master of Arts in Music Education degree must meet the specific requirements of the Graduate Catalog and the specialization requirements, including passing the Comprehensive Examination.

Satisfactory Academic Progress Requirements

The academic index and minimum grade requirements established in the Graduate Catalog are in effect for this program.

The San Germán Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN MUSIC EDUCATION

Core Course Requirements	15 credits
Specialization Requirements	13 credits
Prescribed Distributive Requirements	<u>6 credits</u>
Total	34

Core Course Requirements - 15 credits

MUED	5106	Technology and Instructional Design	3
MUED	5160	History and Philosophy of Music Education	3
MUSI	5185	Musical Interpretation and Analysis	3
MUSI	5255	Workshop in Applied Music I	1
MUSI	5256	Workshop in Applied Music II	1
MUSI	5257	Workshop in Applied Music III	1
MUSI	5265	Conducting and Literature	3

Specialization Requirements - 13 credits

MUED	5105	Measurement, Assessment and Evaluation of Music Learning	3
MUED	5130	Psychology of Musical Learning	3
MUED	5170	Research Methods in Music Education	4
MUED	5190	Seminar on the Teaching of Music	3

Prescribed Distributive Requirements - 6 credits

MUED	5050	The Teaching of Instruments	2
MUED	5060	The Teaching of Vocal and Choral Music	2
MUED	6000	Special Project	4
MUSI	5000	Compendium of Theory and Sight Reading	2
MUSI	5001-5004	Ensemble (one course)	1
MUSI	5010	Compendium of History and Musical Literature	2
MUSI	5051	Instrumental Literature	2
MUSI	5061	Vocal and Choral Musical Literature	2
MUSI	5065	Popular Music	2
MUSI	5080	Orchestration and Arranging by Computer	2
MUSI	5700-6892	Applied Music (one course)	1

Nursing (M.S.N.)

The Master of Science in Nursing Program offers two specialization options: Critical Care Nursing and Medical-Surgical Nursing. The Program has the goal of developing specialists in nursing that:

1. Have knowledge and skills inherent to the specialization.
2. Have ethical-professional attitudes, communication, leadership and critical thinking skills and are able to use technology to facilitate their intervention with individuals, the family and the community.
3. Apply the scientific research process in the solution of health problems, thereby improving the quality of service in the field of nursing.
4. Apply knowledge of mental health during intervention with the individual, family and community.
5. Perform educational or administrative functions in different scenarios as part of the selected specialization: Critical Care Nursing or Medical-Surgical Nursing.

Admission Requirements

In addition to meeting the admission requirements established for Masters Programs in this Catalog, candidates for admission must:

1. Have a Bachelor's Degree in Nursing from an accredited institution.
2. Have a grade point index of 2.50 or above in the last sixty (60) credit hours of academic work.
3. Have a permanent and current generalist nursing license for practicing nursing in Puerto Rico.
4. Be an active member of the College of Professional Nursing of Puerto Rico.
5. Having a minimum of one year of work experience as a general nurse in hospital or community settings offering direct care to clients.
6. Present evidence that you are working as a generalist nurse in hospital or community scenarios if you do not have the year of experience when requesting admission.
7. Send two (2) letters of recommendation from individuals who have supervised the candidate in the work setting.
8. Be interviewed by an Admissions Committee.
9. Present the following documents:
 - a. A health certificate.
 - b. Vaccination certificate of Hepatitis B.
 - c. A Certificate of No Penal Record issued by the Puerto Rico Police Department.
 - d. A copy of current professional license and licensure.
 - e. Cardiopulmonary Resuscitation (CPR) training.
 - f. Updated resume of professional experience.

Graduation Requirements

In addition to completing the graduation requirements for a Master's Degree established in this Catalog, students must:

1. Pass all courses with a minimum grade of B.
2. Meet the required minimum hours for each course that entails practice.
3. Pass course NURS 6990 – Research Project.

Students or graduates of the Program may request a second certification once they have completed the requirements of the specialization or the functional role.

The Arecibo Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN NURSING WITH A SPECIALIZATION IN CRITICAL CARE NURSING AND MEDICAL-SURGICAL NURSING

Core Course Requirements	18 credits
Specialization Requirements	10 credits
Prescribed Distributive Requirements	10 credits
Elective Courses	<u>3</u> credits
Total	41

Core Course Requirements - 18 credits

NURS	5000	Theoretical Foundations	3
NURS	5010	Epidemiology	2
NURS	5020	Biostatistics	3
NURS	5040	Health Assessment	2
NURS	6090	Research in Nursing	3

NURS	6910	Practice in Health Assessment	2
NURS	697_	Research Project	3

Specialization Requirements - 10 credits

Specialization in Critical Care Nursing (M.S.N.)

NURS	6111	Critical Care I	3
NURS	6112	Critical Care II	3
NURS	6916	Practice in Critical Care I	2
NURS	6917	Practice in Critical Care II	2

Specialization in Medical-Surgical Nursing (M.S.N.)

NURS	6221	Medical-Surgical Nursing I	3
NURS	6222	Medical-Surgical Nursing II	3
NURS	6918	Practice in Medical-Surgical Nursing I	2
NURS	6919	Practice in Medical-Surgical Nursing II	2

Prescribed Distributive Requirements - 10 credits

Functional Role in Education

NURS	6050	Curriculum in Nursing	3
NURS	6060	Evaluation in Education	3
NURS	6914	Educational Practice in Nursing	4

Functional Role in Administration

NURS	6070	Administration in Nursing	3
NURS	6080	Evaluation in Administration	3
NURS	6915	Administrative Practice in Nursing	4

Students will choose the area of preference in agreement with the functional role they hope to carry out: nursing education or administration.

Open Information Computer Systems (M.S.)

This Program permits students to obtain a Professional Certificate in Technology and Administration of Databases and with further studies a Master in Science degree in Open Information Computer Systems.

The fundamental purpose of the Program is to form professionals in the field of computers who develop information systems in open settings and architecture in both public and private organizations.

The Professional Certificate in Technology and Administration of Data Banks strives to prepare computer specialists that have the necessary skills to plan, develop, manage, tune and troubleshoot data banks mainly related to the client-server platform in an open environment.

The Program, in addition to permitting students to obtain a Professional Certificate, is directed to the formation of specialists in programming, application and integration of data banks in information systems, with an open approach. This is done with a scientific perspective regarding programming oriented to the object and responding to the new technologies in the computing field.

The knowledge and ability acquired through this Program will allow graduates to develop new information systems and knowledge that enterprises need today. The open focus applied in this Program keeps students from restricting themselves to an owned or closed computer system architecture, and orients them towards the prevailing public standards, in which networks offer inter-connections and inter-operations.

The Program consists of two stages: the first 21 credits are focused on studying data banks, and lead to the Professional Certificate in Technology and Administration of Data Banks.

Students may continue their studies to obtain a Master's Degree in Open Information Computer Systems by taking 18 additional credits, 9 of which must be prescribed distributive courses.

In order to comply with the requirements to a present creative work that demonstrates the capacity to integrate the acquired knowledge, candidates to the Master's Degree in Computer Sciences in Open Information Systems, must defend the developed project before a Program Committee in COIS 6980.

In addition to meeting the general requirements established by the University for admission to master degree studies, students requesting admission to the program must have approved the following courses or their equivalents at the bachelor's level:

COMP 2110 Introduction to Computer Science	3
COMP 2120 Programming Logic	3
COMP 2315 Structured Programming	3
COMP 3850 Database Theory	3

The Metropolitan Campus is authorized to offer the Professional Certificate and the Graduate Program.

Professional Certificate in Technology and Administration of Data Banks

REQUIREMENTS FOR THE PROFESSIONAL CERTIFICATE IN TECHNOLOGY AND ADMINISTRATION OF DATABASES

Core Courses Requirements	21 credits
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Core Courses Requirements - 21 credits

COIS	5100	Relational Databases	3
COIS	5120	Client-server Architecture and Networks	3
COIS	5130	Design Methodology and Advanced Tools	3
COIS	5200	Application of Programming Languages in Data Banks	3
COIS	5210	Database Management	3
COIS	5400	Rapid Application Development	3
COIS	6200	System Tuning, Troubleshooting, Codification, Security and Quality	3

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN OPEN INFORMATION COMPUTER SYSTEMS

Core Course Requirements	30 credits
Prescribed Distributive Courses	<u>9</u> credits
Total	39

Core Course Requirements - 30 credits

COIS	5100	Relational Databases	3
COIS	5120	Client-Server Architecture and Networks	3
COIS	5130	Design Methodology and Advanced Tools	3
COIS	5200	Application of Programming Languages in Data Banks	3
COIS	5210	Database Management	3
COIS	5300	Open System Analysis and CASE	3
COIS	5400	Rapid Application Development	3
COIS	6200	System Tuning, Troubleshooting, Codification, Security and Quality	3
COIS	6980	Project Development in Open Information Systems	3
BADM	5060	Management Information Systems	3

Prescribed Distributive Requirements - 9 credits

Nine credits from the following courses:

COIS	5220	Reengineering Processes	3
COIS	6250	Multimedia and Interface	3
COIS	6360	Social Impact of Computers	3
COIS	6370	Geographic Computer Systems	3
COIS	6380	Decision Support Systems	3
COIS	6970	Seminar on Advanced Topics in Open Systems	3
COIS	6975	Research Seminar	3
ECMP	5240	Special Peripherals, Telecommunications and Networks	3
ECMP	5250	Knowledge Banks and Expert Systems	3
ECMP	6170	Training and Design of Computerized Practice	3
ECMP	6310	Graphic Systems and Animations	3
ECMP	6320	Advanced Programming for Internet	3
ECMP	6350	Artificial Intelligence and Knowledge	3
ECMP	6355	Knowledge Acquisition and Intelligent Tutor	3

Psychological Counseling with Specialization in Family (M.S.)

The Master of Science Program in Psychological Counseling with specialization in Family has an innovating curriculum designed to prepare students academically so that they may apply the knowledge of social sciences to the improvement of family dynamics. The fundamental commitment of this master's degree is to prepare psychologists so that they may serve in the public and private sectors, where services are directed towards prevention and solution of problems that affect families.

The program prepares graduates to prevent and intervene effectively with the psycho-social problems that affect contemporary families from a multi-level perspective. The program offers the required preparation to students and professionals aiming to continue studies at the doctoral level. The curriculum of this program foments the development of capacities, skills, attitudes and ethical values that make possible the formation of professionals in the field of psychology with flexible and critical minds; capable of identifying and finding solutions to situations that arise in the family context.

Admission Criteria for Students with a Bachelor's Degree:

1. Possess a bachelor's degree from an accredited University.
2. Have a grade point index of 2.50 or above in the last 60 credits of academic work at the undergraduate or graduate level or in a combination of both. Although generally these credits will be at the baccalaureate level, in the case of students who have postgraduate credits from an accredited university, they can combine these postgraduate credits with the last credits approved at the baccalaureate level to complete the 60 required credits.
3. Have approved with a score acceptable to the University, within five years prior to the date of the admission application, one of the following tests:
4. Examen de Admisión a Estudios de Postgrado (EXADEP)
5. Graduate Examination Record (GRE)
6. Miller Analogy Test (MAT)
7. Candidate will have to demonstrate the ability to interpret professional material, in Spanish as well as in English, and to express themselves properly in written form in one of languages by writing an essay on a topic designated by the Admissions Committee of the Psychological Counseling Program with specialization in Family.
8. Have a structured interview with the Admissions Committee of the Psychological Counseling Program with specialization in Family and be recommended favorably by this Committee.
9. Present two letters of recommendation from professionals related to the discipline.
10. Present a Certificate of no Criminal Record, updated within six months and any other document that is considered necessary at the time of the evaluation of the candidate.

11. Show evidence of having approved with a minimum grade of B the following courses:
 - a. A course in Basic Statistics
 - b. A course in Principles of Psychological Measurement
 - c. A course in Psychopathology
 - d. Two additional courses in psychology at the baccalaureate level.

Norms and Procedures

A. Academic Progress

Students must comply with the norms included in the section Requirements for Satisfactory Academic Progress in Masters' Programs and with the norms indicated below:

1. Pass all courses leading to the degree with a minimum grade of B. Student who do not pass a course with a minimum grade of B will not be able to register in any course that has this course as a prerequisite.
2. Pass the Integration Seminar with a minimum grade of B as a graduation requirement.

B. Conduct

Students of the Program must comply at all times with the norms, policies and procedures established in the Program, in the current Graduate Catalog, as well as in the General Student Regulations of Inter American University of Puerto Rico. Any violation of the established norms will be sufficient reason to impose disciplinary sanctions. Any student suspended from the Program due to violation of the norms and procedures established in the aforementioned documents may not be re-admitted to the same program.

C. Intrauniversity Transfers

Candidates wishing to transfer to the Masters of Science Program in Psychological Counseling with Specialization in Family will be considered if they meet the conditions set forth in the section Admission Requirements for Masters' Programs and meet the following:

1. Are admitted as a regular student of the Program.
2. Request the transfer of their academic file to the unit to which they wish to move.
3. Are interviewed by the Admissions Committee of the Program of the unit to which they wish to move.
4. Present a letter of the official in charge of the Program at the campus of origin certifying that they meet the conduct and satisfactory academic progress norms.

D. Transfers

Students must meet the transfer norms included in the section Admission of Transfer Students to Masters' Programs, the conditions established in the section Admission Requirements for Masters' Programs and with the norms indicated below:

1. Present a letter from the official in charge of the Program of origin certifying that they meet the conduct and satisfactory academic progress norms of the Program.
2. Are interviewed by the Admissions Committee of the Program of the unit to which they wish to move.

The Aguadilla Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN PSYCHOLOGICAL COUNSELING WITH SPECIALIZATION IN FAMILY

Core Course Requirements	35 credits
Specialization Requirements	<u>24</u> credits
Total	59

Core Course Requirements - 35 credits

PSYC	5010	History and Systems of Psychology	3
PSYC	5030	Ethics and the Legal Aspects of Psychology	3
PSYC	5033	Processes and Techniques of Interviews	2
PSYC	5040	Physiological Psychology	3
PSYC	5050	Developmental Psychology	3
PSYC	5060	Psychology of Personality	3
PSYC	5150	Advanced Statistics	2
PSYC	5200	Contemporary Social Psychology	3
PSYC	5220	Methodology of Research in Psychology	2
PSYC	5231	Psychological Measurement I	3
PSYC	5232	Psychological Measurement II	3
PSYC	6410	Practice in Interview Processes and Techniques	1
PSYC	6421	Practice in Advanced Statistics	1
PSYC	6422	Practice in Psychology Research	1
PSYC	6925	Practice in Psychological Research	3

Specialization Requirements - 24 credits

PSYC	6000	Theoretical Foundations of Family Therapy	3
PSYC	6005	Family Psychopathology	3
PSYC	6010	Models and Techniques of Family Counseling and Psychotherapy	3
PSYC	6015	The Nontraditional Family	3
PSYC	6020	Intervention with Families in Crisis	3
PSYC	691A	Supervised Practice in Psychological Counseling I	2
PSYC	691B	Supervised Practice in Psychological Counseling II	2
PSYC	691C	Supervised Practice in Psychological Counseling III	2
PSYC	697F	Advanced Integration Seminar	3

Psychology (M.A. and Ph.D.)

Master's Program in Psychology

The Masters Program leading to the Masters of Arts Degree in Psychology has as its goal to offer theoretical and practical education leading to the formation of professionals in this field following the standards of certifying organizations in Puerto Rico and the United States. The courses and the practices expose students to topics and fundamental experiences for understanding and handling the diverse manifestations of human behavior produced in Puerto Rican society. The Program also has as its goal to offer the required preparation for students and professionals who aspire to continue studies at the doctoral level.

The following specializations are offered:

- Psychological Counseling
- School Psychology
- Industrial/Organizational Psychology

Admission Requirements

People who seek admission to the Masters of Arts Degree in the Psychology Program must meet the Admission Requirements established in the section Admission Requirements for Masters' Programs" in effect at the time of their admission. In addition, they must satisfy the following conditions:

1. Have earned a bachelor's degree in psychology with a minimum academic index of 3.00 in the last sixty (60) credits of academic work and in their major.
2. Send two (2) letters of recommendation from professors or professionals related to the field to which they are requesting admission, who can appropriately comment on their academic, intellectual and personal capacity to undertake Masters Degree studies.
3. Provide official evidence of having passed with a minimum grade of B, the courses at the bachelor's level (or its equivalent) that are indicated below:

PSIC 3001 Statistical Methods I	3
PSIC 3002 Statistical Methods II	3
PSIC 4234 Psychology of Personality	3
PSIC 4600 Experimental Psychology	4
4. Students who have completed a bachelor's degree in another field with a minimum academic index of 3.00 in the last sixty (60) credits of academic work and in their major will be considered for admission to the program after approving the courses indicated in number 3 above and the following courses (or their equivalents) with a minimum grade of B:

PSIC 1051 General Psychology I	3
PSIC 1052 General Psychology II	3
5. Present evidence of having skills in computers for academic purposes. Students who do not possess these skills will take a course in computers, as recommended by the Admissions Committee, before receiving regular admission to the Program.
6. Present a Certificate of no penal record issued by the Police Department of Puerto Rico (original).
7. Have an interview with the Program's Admissions Committee and be recommended favorably by it. The Program's Admissions Committee uses acceptable minimum scores for admission to the Masters degree. The Program may establish a maximum number of admissions per year.

Norms and Procedures

Academic Progress

Students will comply with the norms contained in the section Requirements for Satisfactory Academic Progress and the norms indicated below.

1. Pass all the courses leading to the degree with a minimum grade of B and in the case of the Practices with a minimum score of 80. Students who do not pass a course with a minimum grade of B will not be able to register in any course that has this course as a prerequisite.
2. Pass the Comprehensive Examination or the Integration Seminar with a minimum grade of B or 80.

Conduct

Students of the Program must at all times comply with the norms, policies and procedures established in the Program, as established in the Psychology Program Graduate Student Manual as well as in the General Student Regulations of Inter American University of Puerto Rico.

Any violation to the established norms will be sufficient reason to apply disciplinary sanctions. Any student who is suspended from the Program due to violation of the norms cannot be re-admitted to the Program in any campus.

Internal Transfers

Students of Inter American University of Puerto Rico, who wish to transfer to another unit of the System to complete the Requirements of the Masters' of Arts Degree in Psychology, must comply with the following requirements:

1. Have admission as a regular student of the Program.
2. Request the transfer of their academic file to the unit to which they wish to transfer.
3. Have an interview with the Admissions Committee of the Program of the unit to which they wish to transfer.
4. Present a letter of the official in charge of the Program certifying that they fulfill the norms of conduct and satisfactory academic progress of the Program.

Transfers

Students will comply with the norms of transfer contained in the section Admission of Transfer Students to Masters' Programs and the norms indicated below:

1. Present a letter of the official in charge of the Program from the unit of origin certifying that they fulfill the norms of conduct and satisfactory academic progress of the Program.

The Metropolitan and San Germán campuses are authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN PSYCHOLOGY

Specialization in Psychological Counseling

Core Course Requirement	29 credits
Specialization Requirements	<u>33</u> credits
Total	62

Specialization in School Psychology

Core Course Requirement	29 credits
Specialization Requirements	<u>33</u> credits
Total	62

Specialization in Industrial/Organizational Psychology

Core Course Requirement	29 credits
Specialization Requirements	<u>33</u> credits
Total	61

Core Course Requirements - 29 credits

Fundamentals of Psychology - 18 credits

PSYC	5010	History and Systems of Psychology	3
PSYC	5030	Ethics and Legal Aspects of Psychology	3
PSYC	5040	Physiological Psychology	3
PSYC	5050	Developmental Psychology	3
PSYC	5100	Cognition, Motivation and Learning	3
PSYC	5200	Contemporary Social Psychology	3

Methodology and Statistics - 11 credits

PSYC	5150	Advanced Statistics	2
PSYC	5153	Principles of Measurement and Construction of Psychological Tests	3
PSYC	5220	Research Methodology in Psychology	2
PSYC	6421	Practice in Advanced Statistics	1
PSYC	6422	Practice in Psychology Research	1
PSYC	6983	Seminar in Psychological Research	2

Specialization Requirements – 32-33

Every student must choose one of the following specializations:

Specialization in Psychological Counseling (M.A.)

Specialization in Psychological Counseling - 33 credits

PSYC	5033	Interview Processes and Techniques	3
PSYC	5285	Psychological Counseling	2
PSYC	6050	Intervention Models and Techniques I	3
PSYC	6051	Intervention Models and Techniques II	3
PSYC	6090	Psychopathology	3
PSYC	6260	Cognitive Assessment	3
PSYC	6270	Personality Assessment	3
PSYC	6410	Practice in Interview Processes and Techniques	1
PSYC	6914	Practice in Cognitive Assessment	1
PSYC	6915	Practice in Personality Assessment	1
PSYC	6933	Practice I: Personal and Professional Development	1
PSYC	6934	Practice II in Psychological Counseling	3
PSYC	6935	Practice III in Psychological Counseling	3
PSYC	6936	Practice IV in Psychological Counseling	3

Specialization in School Psychology (M.A.)

Specialization in School Psychology - 33 credits

PSYC	5033	Interview Processes and Techniques	2
PSYC	5295	Consultation, Collaboration and School Organization	3
PSYC	6110	Psychological and Learning Problems in Children and Adolescents	3
PSYC	6214	Intervention and Psychotherapy Models with Children and Adolescents	3
PSYC	6216	Psycho Educational Evaluation and Interventions with Exceptional Children	2
PSYC	6260	Cognitive Assessment	3
PSYC	6270	Personality Assessment	3
PSYC	6410	Practice in Interview Processes and Techniques	1
PSYC	6914	Practice in Cognitive Assessment	1
PSYC	6915	Practice in Personality Assessment	1
PSYC	6928	Practice in Psycho Educational Evaluation and Interventions with Exceptional Children	1
PSYC	6933	Practice I: Personal and Professional Development	1
PSYC	6944	Practice II in School Psychology	3
PSYC	6945	Practice III in School Psychology	3
PSYC	6946+	Practice IV in School Psychology	3

Specialization in Industrial/Organizational Psychology(M.A.)

Specialization in Industrial/Organizational Psychology - 32 credits

PSYC	6300	Personnel Psychology	4
PSYC	6303	Psychological and Social Aspects of Organizational Behavior	3
PSYC	6304	Strategies for Quality in the Organization	3
PSYC	6305	Strategies for Continuous Improvement and Decision Making	2
PSYC	6306	Psychological Dimensions in the Education and Training of Human Resources	4
PSYC	6308	Contemporary Aspects in Industrial/Organizational Psychology	3
PSYC	6314	Psychological Evaluation in Industrial/Organizational Environment	3
PSYC	6933	Practice I: Personal and Professional Development	1
PSYC	6954	Practice II in Industrial/Organizational Psychology	3
PSYC	6955	Practice III in Industrial/Organizational Psychology	3
PSYC	6980	Research in Industrial/Organizational Psychology	3

Doctoral Program in Psychology

The Doctoral Program leading to the degree of Doctor of Philosophy in Psychology (Ph.D.) provides educational and professional training framed in a scientific-practical model. The curriculum is designed to reflect the integration of psychological theory, scientific research, and professional practice of the psychological discipline in the specializations of Psychological Counseling, School Psychology, and Industrial/ Organizational Psychology.

Industrial/Organizational Psychology

This specialization integrates psychological science, theory, and practice to research, and promotes human development and their effectiveness in the industrial and organizational environment. Uses scientific methods to study individual and group behavior, leadership, and organizational variables associated to the work environment. Develops strategies related to the design, analysis, organizational development from the perspective of the Industrial/Organizational psychology. Uses and applies psychological techniques for recruiting, selection, and placement of personnel, education and training of human resource, conflict solution, and offering of consulting services.

Psychological Counseling

This specialization integrates psychological science, theory and practice to facilitate individual and group functioning through the cycle of life, and to attend the cognitive, emotional, biological, social, cultural, occupational health, and human development aspects. This specialization uses a variety of methods for research, testing, evaluation and supervision, as well as, prevention and intervention techniques, to help people improve their well-being, identify, understand and search solution alternatives to the problems they have, and that do not let them develop their cognitive and socio-emotional potential. The formation that is offered in this specialization allows the professional to work with the functional as well as the dysfunctional aspects of individual and group development.

School Psychology

This specialization integrates psychological science, theory, and practice to research, and promotes learning the cognitive, emotional and social development of students through the cycle of life as well as those of parents, teachers, and other personnel in the school scenario. Uses testing and evaluation techniques to identify and diagnosis problems and disorders in learning, and techniques in educational intervention and cognitive remediation. Develops strategies for the prevention and solution of problems and implements techniques to facilitate teaching-learning processes with the purpose of promoting psychological well-being and attending mental health and educational needs of all children and adolescents.

Philosophy

The doctoral program in psychology, framed in a scientific-practical model, educates and trains in the use of scientific and practical foundations of the discipline for creative, critical and responsible actions and reflections in decision-making and in problem solving requiring the knowledge and application of psychological principles.

Graduates from the Program may work independently and collaborate in an interdisciplinary manner in the roles, functions and responsibilities inherent to work as individual, group or organizational consultants. Respect for personal dignity and human diversity are emphasized and efforts are made to eliminate barriers preventing optimum human development. Graduates from the Program will accept the responsibility required by the profession and will, therefore, respect others as well as their cultures and expressions.

General Objectives of the Doctoral Program in Psychology

The course of study is designed to strengthen skills and knowledge in scientific research in psychology as well as in theoretical and practical knowledge in each specialization: Psychological Counseling, School Psychology and Industrial/Organizational Psychology. Students are exposed to different experiences in courses and seminars that foment knowledge from a critical perspective, courses that offer theory and practice in research methods and courses in their specialization that will enable them to practice psychology in the private or public sector.

- To prepare professional psychologists at the doctoral level capable of providing a wide variety of psychological services to children, adolescents, families, adults, persons with special needs, and groups in different scenarios, such as educational institutions, communities, organizations, hospitals and public and private psychological service agencies.
- To foment, in students, the development of a sensitive attitude to the cultural and social diversity present in society and the manifestation of a professional behavior that respects individual dignity.
- To promote the development of a critical attitude towards the different theoretical perspectives explaining human conduct in accord with our socio-cultural context.
- To develop psychologists committed to offer high quality services in agreement with the ethical and professional standards and the roles they should engage in interventions with different populations and in different scenarios.
- To develop professionals capable of applying models and scientific strategies that contribute to the identification of psychosocial problems, create and evaluate alternatives and psychological interventions.

In addition to the general objectives, the following objectives for each specialization are defined:

Industrial/Organizational Psychology

- To contribute to the formation of a psychologist capable of intervening with organizations in their different processes, making feasible their effectiveness and productivity in a quality institutional life environment.
- To develop a sensitive and respectful orientation towards the cultural and social diversity present in organizations, and openness to the different theoretical perspectives explaining human behavior.
- To present models and scientific and practical strategies that facilitate the exchange of research knowledge to the real work world.

Psychological Counseling

To facilitate the atmosphere and the accumulation of experiences necessary for the formation of a psychologist capable of conceptualizing, designing and evaluation programs and psychological services in different scenarios and in different populations.

- To promote conditions that permit the formation of a psychologist capable of developing scientific research relevant to Psychological Counseling.
- To provide learning experiences that promote the preparation of a psychologist capable of attending to functional human development as well as the dysfunctional caused by physical, affective, cognitive and socio-cultural conditions.

School Psychology

- To prepare professional school psychologists that provide a wide variety of psychological services to children, their families and to school personnel, primarily in the academic scenario or in agencies providing school psychological services.
- To provide future school psychologists with solid academic and professional foundations that demonstrate profoundness and diversity in psychology as well as in education.
- To promote sensitivity to human diversity and respect for individual dignity. The knowledge of one's self, consideration for others, and respect for cultural, social and individual differences are cultivated actively and are expected of all students.

Admission Requirements to the Doctoral Program in Psychology

The Doctoral Program of Philosophy in Psychology (Ph.D.) provides two levels of admission: (1) students who have a master's degree or credits at a doctoral level and (2) students who have a Bachelor Degree in Psychology and are interested in direct admittance to the Doctoral Program through a combined curriculum of courses at master's and doctoral levels.

Admission Requirements for Students with a Master's Degree in Psychology

1. Have earned a Master's degree in Psychology or its equivalent at an accredited university with a general grade point index of at least 3.00 or have completed the Master's level courses required for this Program.
2. Be proficient in Spanish and English.
3. Have passed, with scores acceptable for the University, one of the following tests within the five years immediately preceding the requested admission date:
 - a) Graduate Record Examination (GRE)
 - b) Miller Analogy Test (MAT)
 - c) Examen de Admisión a Estudios de Posgrado (EXADEP)
4. Have requested that three letters of recommendation be sent to the University.
5. To submit a portfolio including an essay of personal interests, evidence of courses related to the fundamentals of psychology and the area of specialization. In the area of fundamentals of psychology, the candidate must show evidence of knowledge of the biological basis of behavior, social and cultural basis, cognitive and emotional basis of behavior, statistics, research methodology, and ethical and legal aspects. Evidence of a minimum of 20 credits in the area of fundamentals of psychology, research and statistics and from 20 to 22 credits or their equivalent in courses of the area of specialization.
6. Be interviewed by the Admissions Committee for Doctoral Studies and have received a favorable recommendation.

Admission Requirements for Students with a Bachelor's Degree

1. Have a bachelor degree from an accredited university.
2. Have a minimum grade point average of 2.50 in the last 60 credits of academic work. Even though in general, these credits will be at the bachelor's level, in the case of a student who has another Master's awarded by an accredited university, the student may combine the credits at the Master's level with the last passed credits of the bachelor's level until completing the 60 stipulated credits.
3. Have passed with scores acceptable for the University, one of the following tests during the last five years prior to the date the admission was requested:
 - a) Graduate Record Examination (GRE)
 - b) Miller Analogy Test (MAT)

- c) Examen de Admisión a Estudios de Posgrado (EXADEP)
4. Show through a test or by any other way the Department or Academic Division deems appropriate the ability to interpret professional material, both in Spanish and English, and to express correctly in writing in one of the two languages.
 5. Have an interview with the Admission's Committee of the Doctoral Program in Psychology and to be favorably recommended.
 6. Show evidence of having passed satisfactorily the following bachelor courses (or their equivalents):

PSYC 3001	Statistical Methods I	3
PSYC 3002	Statistical Methods II	3
PSYC 4200	Principles of Psychological Testing	3
PSYC 4600	Experimental Psychology	4
	Two other psychology courses at bachelor's level	6

Admission of Transfer Students

The admission of transfer students to the Doctoral Program will be taken into consideration if they meet the conditions of the Program described in "Admission Requirements to the Doctoral Program in Psychology".

Candidates should request that the university where they studied send a copy of their transcript directly to the Admissions Office of the Campus to which they are requesting admission, so that they may receive credit for their studies as stipulated below:

1. Candidates for admission as transfer students to the doctoral program will be considered if they meet the conditions of the Program established in the section "Admission Requirements to the Doctoral Program in Psychology".
2. Students that have begun doctoral studies in another accredited university may transfer up to 15 credits passed with grades of A or B if the courses are equivalent to the courses offered in the Doctoral Program in Psychology of this University and if the Faculty of the Program approves them.

Graduation and Academic Progress Requirements

A. Academic Progress and Graduation Requirements for Candidates with a Master's Degree in Psychology

To obtain the doctoral degree in Psychology students must comply with the requirements of academic progress of the doctoral degree described in this Catalog. In addition they must comply with the following requirements:

1. Pass all courses of the Doctoral Program in Psychology with a minimum grade of B.
2. Pass the doctoral internship in School Psychology or Psychological Counseling.
3. Pass the doctoral candidate examination before the oral defense of the dissertation. The examination may be taken after the student has passed at least 30 doctoral credits.
4. Pass the dissertation proposal. At this time the student is considered a doctoral candidate.
5. Complete and pass the doctoral dissertation.

B. Requirements of Academic Progress and Graduation for Candidates with a Bachelor in Psychology

To obtain the doctoral degree in Psychology candidates who have a bachelor's degree must comply with the following requirements:

1. Pass 40 or 42 Foundation and Specialization credits at the Master's level in Psychology with a minimum grade of B before taking courses at the doctoral level.
2. Pass the operational courses at the Master's level in Psychology.
3. Comply with all the requirements of academic progress and graduation at the doctoral level.

C. Residence Requirements

- To complete the doctoral degree, students must complete a minimum of 60 percent of their credits at Inter American University.
- Students must complete a minimum of one-year full time residence or its equivalent.

D. Time Limit to Finish the Degree

Students admitted to the Doctoral Program have a minimum of four (4) academic sessions and a maximum of eight (8) natural years to complete the degree requirements of the Program starting from the date of admission.

Program of Studies: Academic Requirements

The Program permits the admission of students with a Master's degree in Psychology as well as those that have only completed a bachelor's degree in psychology. Students admitted at the doctoral level will take the academic requirements described part A below. Students with a bachelor's degree in psychology must meet the academic requirements described in Part B of this section.

The Metropolitan and San Germán campuses are authorized to offer this Program.

A. Academic Requirements for the Doctoral Degree in Psychology (Ph.D.) - Doctoral Level

Ph.D. Program: Students with Masters in Psychology

REQUIREMENTS FOR THE DOCTORAL DEGREE IN PSYCHOLOGY FOR STUDENTS WITH A MASTER'S DEGREE IN PSYCHOLOGY

Core Course Requirements		17 credits
Specialization Requirements		<u>21</u> credits
	Total	38
Operational Requirements (Fee)		

Core Course Requirements – 17 credits

PSYC	7010	Human Diversity	2
PSYC	7020	Neuropsychology	3
PSYC	7030	Methods of Quantitative Research	2
PSYC	7040	Methods of Qualitative Research	2
PSYC	7050	Design and Evaluation of Psychological Programs and Services	2
PSYC	8510	Seminar in Professional Consulting	3
PSYC	8910	Practice in Quantitative Research	1
PSYC	8911	Practice in Qualitative Research	1
PSYC	8912	Practice in Design and Evaluation of Psychological Programs and Services	1

Operational Requirements

PSYC	8916	Practice in Industrial/Organizational Psychology	(A fee equivalent to 3 credits)
PSYC	8917A	Internship (Full-time students)	(A fee equivalent to 3 credits)
PSYC	8917B	Internship (Full-time students)	(A fee equivalent to 3 credits)
PSYC	8917C	Internship (Part-time students)	(A fee equivalent to 1.5 credits)
PSYC	8917D	Internship (Part-time students)	(A fee equivalent to 1.5 credits)
PSYC	8917E	Internship (Part-time students)	(A fee equivalent to 1.5 credits)
PSYC	8917F	Internship (Part-time students)	(A fee equivalent to 1.5 credits)
PSYC	8991	Dissertation A	(A fee equivalent to 3 credits)

PSYC 8992 Dissertation B

(A fee equivalent to 3 credits)

Specialization Requirements - 21 credits

Every student must choose one of the following specializations:

Specialization (Industrial/Organizational Psychology) (students with Master's)

Required Courses - 9 credits

PSYC	8410	Organizational Design and Change Processes	3
PSYC	8420	Development and Validation of Instruments for the Search of Information in the Organization	3
PSYC	8430	Seminar in Industrial/Organizational Psychology	3

Courses Selected in Consultation with the Advisor - 12 credits

PSYC	7970	Special Topics	1-3
PSYC	8440	Decision Making and Solution of Conflicts	3
PSYC	8450	Design of Training and Use of Technology	3
PSYC	8460	Study and Management of Self-directed Groups	3
PSYC	8470	Design of Work Spaces	3
PSYC	8480	Handling Pain in the Work Environment	3

Specialization (Psychological Counseling) (students with Master's)

Required Courses - 9 credits

PSYC	8210	Adulthood: Psychological Perspectives	3
PSYC	8220	Psychotherapeutic Intervention with Families	3
PSYC	8230	Evaluation and Intervention in Populations with Special Conditions	2
PSYC	8913	Practice in Evaluation and Intervention in Populations with Special Conditions	1

Courses Selected in Consultation with the Advisor - 12 credits

PSYC	7970	Special Topics	1-3
PSYC	8240	Seminar in Psychological Evaluation	3
PSYC	8250	Psychotherapeutic Intervention with Couples	3
PSYC	8260	Seminar: Handling High Risk Psychological Cases	1-3
PSYC	8270	Group Psychotherapy	3
PSYC	8280	Alternative and Complementary Therapies	3
PSYC	8340	Neuropsychological Evaluation	2
PSYC	8915	Practice in Neuropsychological Evaluation	1
EDUC	8370	Age, Sickness and Death: Acceptance Counseling	3
EDUC	8400	Seminar: Counseling Women	3

Specialization (School Psychology) students with Master's

Required Courses - 12 credits

PSYC	8220	Psychotherapeutic Intervention with Families	3
PSYC	8310	Professional Standards in School Psychology	3
PSYC	8320	School Organization and Operation	3
EDUC	8110	Design and Construction of Educational Programs	3

Courses Selected in Consultation with the Advisor - 9 credits

PSYC	7970	Special Topics	1-3
PSYC	8260	Seminar: Handling High Risk Psychological Cases	1-3
PSYC	8270	Group Psychotherapy	3
PSYC	8330	Psychological Evaluation and Intervention with Infants and Preschool Children	2
PSYC	8340	Neuropsychological Evaluation	2
PSYC	8914	Practice in Psychological Evaluation and Intervention with Infants and Preschool Children	1
PSYC	8915	Practice in Neuropsychological Evaluation	1

Additional Academic Requirements for Students Admitted with a Bachelor's Degree

Ph.D. Program (Students with Bachelor's in Psychology)

Depending on the specialization, either 43 or 44 credits must be passed at the level of the Master's degree in psychology (5000 or 6000 level courses), before beginning to take courses at the doctoral level (7000 or 8000 level courses). The distribution of courses required follows:

Specialization (Industrial/Organizational Psychology) (students with Bachelor's)

REQUIREMENTS FOR INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY

Core Course Requirements	21 credits
Specialization Requirements	<u>23</u> credits
Total	44

Core Course Requirements - 21 credits

Twelve credits selected from the following courses:

PSYC	5010	History and Systems of Psychology	3
PSYC	5040	Physiological Psychology	3
PSYC	5050	Developmental Psychology	3
PSYC	5060	Psychology of Personality	3
PSYC	5100	Cognition, Motivation and Learning	3
PSYC	5200	Contemporary Social Psychology	3

Methodology and Statistics - 9 credits

PSYC	5150	Advanced Statistics	2
PSYC	5153	Principles of Measurement and Construction of Psychological Tests	3
PSYC	5220	Research Methodology in Psychology	2
PSYC	6925	Practice in Methods of Psychological Research	2

Specialization Requirements - 23 credits

PSYC	5030	Ethics and Legal Aspects in Psychology	3
PSYC	6300	Psychology of Personnel	4
PSYC	6303	Psychological and Social Aspects in Organizational Behavior	3
PSYC	6304	Strategies for Total Quality	3
PSYC	6306	Psychological Dimension in the Education and Training of Human Resources	4
PSYC	6314	Psychological Evaluation in the Industrial/Organizational Environment	3
PSYC	6316	Psychology of Leadership	3
PSYC	6930*	Practice I in Personal and Professional Development in Psychology	
PSYC	6951**	Practice II in Industrial/Organizational Psychology	

PSYC 6952** Practice III in Industrial/Organizational Psychology

Specialization (Psychological Counseling) (students with Bachelor's Degree)

REQUIREMENTS FOR PSYCHOLOGICAL COUNSELING

Core Course Requirements	21 credits
Specialization Requirements	<u>22</u> credits
Total	43

Core Course Requirements - 21 credits

Twelve credits selected from the following courses:

PSYC	5010	History and Systems of Psychology	3
PSYC	5040	Physiological Psychology	3
PSYC	5050	Developmental Psychology	3
PSYC	5060	Psychology of Personality	3
PSYC	5100	Cognition, Motivation and Learning	3
PSYC	5200	Contemporary Social Psychology	3

Methodology and Statistics - 9 credits

PSYC	5150	Advanced Statistics	2
PSYC	5153	Principles of Measurement and Construction of Psychological Tests	3
PSYC	5220	Research Methodology in Psychology	2
PSYC	6925	Practice in Methods of Psychological Research	2

Specialization Requirements - 22 credits

PSYC	5030	Ethics and Legal Aspects in Psychology	3
PSYC	5033	Interview Processes and Techniques	2
PSYC	6090	Psychopathology	3
PSYC	6113	Models of Counseling and Psychotherapy	3
PSYC	6114	Counseling and Psychotherapy Techniques	3
PSYC	6260	Cognitive Assessment	3
PSYC	6270	Personality Assessment	3
PSYC	6914	Practice in Cognitive Assessment	1
PSYC	6915	Practice in Personality Assessment	1
PSYC	6930*	Practice I in Personal and Professional Development in Psychology	
PSYC	6931**	Practice II in Psychological Counseling	
PSYC	6932**	Practice III in Psychological Counseling	

Specialization (School Psychology) (Ph.D. students with Bachelor's)

REQUIREMENTS FOR SCHOOL PSYCHOLOGY

Core Course Requirements	21 credits
Specialization Requirements	<u>22</u> credits
Total	43

Core Course Requirements - 21 credits

Twelve credits selected from the following courses:

PSYC	5010	History and Systems of Psychology	3
PSYC	5040	Physiological Psychology	3
PSYC	5050	Developmental Psychology	3
PSYC	5060	Psychology of Personality	3
PSYC	5100	Cognition, Motivation and Learning	3
PSYC	5200	Contemporary Social Psychology	3

Methodology and Statistics - 9 credits

PSYC	5150	Advanced Statistics	2
PSYC	5153	Principles of Measurement and Construction of Psychological Tests	3
PSYC	5220	Research Methodology in Psychology	2
PSYC	6925	Practice in Methods of Psychological Research	2

Specialization Requirements - 22 credits

PSYC	5030	Ethics and Legal Aspects in Psychology	3
PSYC	5033	Interview Processes and Techniques	2
PSYC	5280	Roles and Functions of the School Psychologist	3
PSYC	6110	Psychological and Learning Problems in Children and Adolescents	3
PSYC	6214	Intervention and Psychotherapy Models with Children and Adolescents	3
PSYC	6260	Cognitive Assessment	3
PSYC	6270	Personality Assessment	3
PSYC	6914	Practice in Cognitive Assessment	1
PSYC	6915	Practice in Personality Assessment	1
PSYC	6930*	Practice I in Personal and Professional Development in Psychology	
PSYC	6941**	Practice II in School Psychology	
PSYC	6942**	Practice III in School Psychology	

* A fee equivalent to one credit

** A fee equivalent to three credits.

Risk Management in Health Care (Professional Certificate in Management)

The Professional Certificate Program in Risk Management is designed to develop professionals of different disciplines with interest in developing abilities related to the prevention, handling and reduction of risks in managerial, administrative and clinical health service roles. These professionals will be able to deal with adverse situations and risks from the health industry organizations with ethical awareness and within an interdisciplinary team. They will frame their conduct in the knowledge of state and federal laws, regulations and litigation processes; the financing of risks, patient security and quality of services while maintaining a proactive, objective and judicious attitude.

Graduate Competencies

Graduates of the Professional Certificate in Risk Management in Health Care will demonstrate the following competencies:

1. Incorporate fundamental concepts of risk handling management when taking care of prevention and reduction of risk needs in health care services in Puerto Rico.

2. Apply total quality concepts and skills to optimize organizational efforts in risk prevention, management and reduction.
3. Contribute effectively in developing a secure environment as an important custom within health care organizations in Puerto Rico.
4. Act with integrity and honesty based on the knowledge of state and federal laws, regulations and litigation processes applicable to Risk Management in Health Care Program.
5. Demonstrate the application of concepts and skills related to risk financing and control of losses when handling adverse events and risks while maintaining a proactive, objective and judicious attitude.

Admission Requirements

Any person with a Bachelors, Masters or Doctoral degree from an accredited university who has an interest in risk management in health care may request admission to the program. To be admitted to the Professional Certificate in Risk Management in Health Care Programs, the candidate must comply with the general admission requirements for a postgraduate degree, established by Inter American University of Puerto Rico in the Graduate Catalog.

Graduation Requirements

- a. Academic index: students must complete the program credits with a minimum index of 2.5.
- b. Pass certificate courses with a minimum grade of C.

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR THE PROFESSIONAL CERTIFICATE IN RISK MANAGEMENT IN HEALTH CARE

Certificate Requirements	Total	<u>16</u> credits 16
Certificate Requirements - 16 credits		
RMHC 5000 Risk Management in Health Care		2
RMHC 5010 Risk Quality and Management in Health Care		3
RMHC 5020 Uncertainty and Risk in the Health Care Industry		3
RMHC 5030 Patient Security and Risk Management		4
RMHC 5040 Legal Aspects of Risk Management in Health Care		4

Social Work (M.S.W.)

The Master's Program in Social Work has the mission of preparing students to perform as advanced practitioners with the knowledge, skills and values of the profession. In addition, it aims to prepare persons committed to social and economic justice. In line with this objective, the course of studies is framed in the systemic and ecological approach and emphasizes the perspectives of empowerment and strengths to work with Puerto Rican families in their social context.

The general objectives of the Master's Program in Social Work are in harmony with its mission and are oriented toward the preparation of advanced practitioners capable of:

1. Using the perspectives of strengths and empowerment in social work practice for the promotion, restoration, maintenance and strengthening of the welfare of high risk families;
2. Examining and using findings and scientific methodologies in their professional practice, including the assessment of the effectiveness and the efficiency of their practice and who will be capable of involving themselves in the process of evaluating the goals of their agency (program assessment);
3. Developing and implementing strategies and techniques that promote social and economic justice for the benefit of high risk families sand populations that are historically oppressed and destitute within the context of the values and ethics of the social work profession;

4. Incorporating in their practice, respect and esteem for human diversity, and understanding how this diversity is related to high-risk families and their community.

The Program specializes in two areas: Direct Services and Administration in Social Work.

Professional practice at an advanced level focuses on the prevention of social problems and the promotion of social and family changes starting with strengths and empowerment perspectives in different types of systems.

The Administration of Social Work specialization is designed to prepare advanced level practitioners with the knowledge, skills and values that will enable them to work as professionals in human service organizations in fields such as: administration, supervision, development, and analysis of social policy and the planning, development and implementation of programs.

The Direct Services specialization aims to prepare advanced level social workers with the knowledge, skills and values for intervention in different processes with families affected by variables intimately related to oppression. Emphasis is given to the professional practice with groups and communities from a perspective of strengths and empowerment of the family members. Models of intervention with families are critically examined as well as their application and usefulness with different families in Puerto Rico within their sociocultural context.

In addition to meeting the requirements established in the section “Admission Requirements for Masters’ Programs” of this Catalog, students are required to have passed the following bachelor level courses or their equivalents for entering the Program:

Statistic Methods in Social Sciences	3 credits
Techniques in Scientific Social Research	3 credits

Both courses must have been passed with a minimum of a C.

The Arecibo and Metropolitan campuses are authorized to offer this Program.

The Master’s Program of the Metropolitan Campus is accredited by the Council on Social Work Education, (<http://www.cswe.org>).

REQUIREMENTS FOR THE MASTER OF SOCIAL WORK DEGREE

Regular Program:

Core Course Requirements (Fundamentals)	22 credits
Specialization Requirements	27 credits
Prescribed Distributive Requirements	<u>6 credits</u>
Total	55

Advanced Program:

Specialization Requirements	27 credits
Prescribed Distributive Courses	<u>6 credits</u>
Total	33

Core Course Requirements (Fundamentals) - 22 credits

SOWO	5011	Human Behavior in the Social Environment I	3
SOWO	5012	Human Behavior in the Social Environment II	3
SOWO	5013	Fundamentals of Professional Practice I	3
SOWO	5014	Fundamentals of Professional Practice II	3
SOWO	5015	Social Policy and Social Welfare Systems	3
SOWO	5016	Research in Social Work	3
SOWO	5913	Practicum I	2
SOWO	5914	Practicum II	2

Students will be able to choose from one of the two specializations offered in the Master’s Program in Social Work: Direct Services or Administration in Social Work.

Specialization Requirement - 27 credits

Specialization in Administration in Social Work

SOWO	6029	Diversity and Oppression	3
SOWO	6033	Evaluation of Professional Practice	3
SOWO	6036	Program Planning and Evaluation	3
SOWO	6037	Administration in Social Work	3
SOWO	6038	Human Resources Management and Development in Social Agencies	3
SOWO	6039	Proposals Formulation	3
SOWO	6043	Administration of Non-traditional Agencies	3
SOWO	6914	Practicum III Administration in Social Work	2
SOWO	6915	Practicum IV Administration in Social Work	2
SOWO	6916	Practicum V Administration in Social Work	2

Prescribed Distributive Requirements - 6 credits

All students should take six (6) credits in their specialization from the following courses, in accordance with their specialization.

SOWO	6044	Social Work and Women	3
SOWO	6045	Social Work and the Elderly	3
SOWO	6046	Identification and Use of Community Resources	3
SOWO	6047	Social Work and Human Sexuality	3
SOWO	6048	AIDS in the Work Environment	3
SOWO	6049	Managerial Information Systems in Social Work	3
SOWO	6053	Advanced Techniques in Prevention and Intervention with Families with Specific Needs	3
SOWO	6054	Social Work and Employee Aid Programs	3
SOWO	6055	Social Work and HIV/AIDS	3
SOWO	6056	Intervention with Families with Patients with Terminal Illnesses	3

Specialization in Direct Services (Social Work)

SOWO	6029	Diversity and Oppression	3
SOWO	6031	Strength Perspectives in Family Intervention	3
SOWO	6032	Working in Groups with Families	3
SOWO	6033	Evaluation of Professional Practice	3
SOWO	6034	Family Intervention Models	3
SOWO	6035	Community, Families and Social Change	3
SOWO	6036	Program Planning and Evaluation	3
SOWO	6911	Practicum III Direct Services	2
SOWO	6912	Practicum IV Direct Services	2
SOWO	6913	Practicum V Direct Services	2

Post Masters Degree Professional Certificate in Clinical Social Work

The Post Masters Degree Professional Certificate Program in Clinical Social Work aims to prepare social workers with a biopsychosocial and interdisciplinary approach to work in independent practice in diverse scenarios by integrating models for primary, secondary and tertiary prevention.

Current clinical social work deals with care of diverse human systems without excluding the possibility of intervening with broader social systems. Clinical social work with a biopsychosocial approach transfers its center of

attention from the individual as the main client to the evaluation, diagnosis and intervention in and between human systems. It integrates diverse biological, psychological and social variables and associates them to explain behavior in family, group and interpersonal relations that individuals have with their environment. With this approach, social intervention moves, in addition, towards intervention centered on the family, consultation and evaluation of the professional practice. This can be conducted in public or private scenarios.

Admission Requirements

1. Have a Masters Degree in social work with a specialization in clinical, direct service or family from a university accredited by the Council on Social Work Education (CSWE).
2. If candidates have another specialization in social work; they must pass, prior to admission, the following courses of methodology in social intervention or their equivalents: SOWO 6032, 6034 and 6035.
3. Have a minimum of two years practical experience in direct service in public or private institutions.

Graduation Requirements

In order to complete the Post Masters Professional Certificate in Clinical Social Work, students must pass at least 18 credits with a general average of 3.00.

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR POST MASTERS DEGREE PROFESSIONAL CERTIFICATE IN CLINICAL SOCIAL WORK

PROFESSIONAL CERTIFICATE REQUIREMENTS 18 credits

Certificate Requirements - 18 credits

SOWO	7130	Conceptual Approaches in Clinical Social Work	3
SOWO	7140	Coordinated Handling of Mental Health and Clinical Social Work	3
SOWO	7150	Family Therapy in Social Work	3
SOWO	7153	Social Work in Couples Therapy	3
SOWO	7154	Group Therapy in Social Work	3
SOWO	7156	Practicum in Clinical Social Work	3

Theological Studies (Ph.D.)

The main purpose of the Program is to prepare specialists with advanced academic studies in the fields of Christian Education and Pastoral Theology. These studies train the graduates to contribute as researchers and instructors of the Christian faith in the spiritual, social and academic areas, in Puerto Rico, as well as in the Caribbean, Latin America and Hispanic communities in the United States. From an interdisciplinary and ecumenical approach, it fosters thought about theology and its relevance in contemporary society. The Program emphasizes the analysis of the theological foundations of Christianity and the essential role that they play in the formation of ethical values of human beings.

Admission Requirements

Candidates for admission must:

1. Have received a Master's Degree in Divinity, or its equivalent, from an accredited university or from an accredited institution of graduate studies, with a grade point average of no less than 3.00. Candidates that have a Master of Arts degree in Religion, Sacred Theology or Theology will also be considered.

2. Complete the admission form, which will include an essay about their intellectual and professional career, highlighting the factors that made the candidate apply to the Program. It should also express the candidate's academic, vocational, and professional purposes.
3. Have a full knowledge of the Spanish language and competency in the English language.
4. Have taken one of the following examinations: Graduate Record Examination (GRE), Miller Analogy Test or Examen de Admisión a Estudios de Posgrado (EXADEP) [Graduate Studies Aptitude Test] within the last three years of the date admission is requested. The Program's Admission Committee will establish the acceptable minimum score levels for the degree.
5. Have taken the test for the Teaching of English as a Foreign Language (TOEFL) - Required for students whose first and second language is not English.
6. Have passed a statistics course.
7. Present three (3) letters of recommendation, preferably from Faculty members that can properly comment on their academic, intellectual and personal ability to develop doctoral studies.
8. Submit an essay, term paper, or critical exegesis (of no more than thirty pages) that shows competency in master's studies. Preferably, the work must be related to the major that is being requested at a doctoral level.
9. Have an interview with the Admission Committee of the Doctoral of Philosophy Program in Theological Studies, and be favorably recommended by it.

Special cases of students who request admission by transfer from a foreign accredited university or institution of graduate studies will be evaluated according to their individual merits.

Academic Progress Requirements

In the Doctoral Program the student will progress through the following phases:

1. Pass a reading examination in a third modern language after completing 24 credits of the Program.
2. Comply with the following requirements:
 - a) Pass all courses with a minimum of B.
 - b) Pass the comprehensive examination. Students must pass this test after having passed at least 30 credits (9 credits in core courses and 21 credits in courses related to their specialization).
 - c) Pass the thesis proposal.
3. Comply with all the preparation and presentation requirements of the dissertation.
4. Complete the degree in a period of seven years. Annual extensions can be awarded up to a maximum of three. These will be awarded based only on significant progress and work demonstrated by the student during the year that is awarded.

At the beginning of the first academic term of studies, the Director of the Doctoral Program will assign the student a faculty member that will temporarily serve as an academic advisor. At the end of the first academic term the advisor that will work with the student during the rest of the study program will be assigned. The advisor will be responsible of guiding the student on the courses that should be taken, as well as other aspects of the Program until the time of the comprehensive examination. At the end of the second academic term of the first year, the advisor will evaluate the work of the student during that period, and will give a written copy of the evaluation to the student and to the Director of the Doctoral Program.

It is expected that from the beginning of the first year of studies the student explore topics from which the doctoral dissertation may be developed.

To be considered a Doctoral Candidate, the student must have passed all the courses of the Program, except THEO 8994 – Doctoral Dissertation. An exception to the rule could be made with a course that the student is taking the academic term when the comprehensive examination is requested.

Having being admitted to the Doctoral Program does not guarantee admission to the degree candidacy. During the period prior to the request of admission to degree candidacy, the student should consult with his advisor to choose the topic of the dissertation. Once the topic is determined with the approval of the advisor, the student will prepare the proposal for research and will submit it to the Director of the Doctoral Program. If the proposal is accepted, the Director will officially inform the student that he has been admitted as a candidate for the degree.

The Director of the Doctoral Program, with the prior agreement of the degree candidate, will name three faculty members to form the candidate's Dissertation Committee, one of who will be designated as the candidate's Dissertation Director. This faculty member will also chair the committee. The Director of the Doctoral Program will make available to this committee the candidate's file which contains a record of the academic work done by the candidate to date, the results achieved on the comprehensive examination, the preliminary research proposal and any other documents academically relevant to the work of the candidate. The candidate's Dissertation Committee will thenceforth be responsible for advising and directing the student until the Dissertation is completed. Its defense will be through an oral examination before the Committee, which will be integrated by the three faculty members appointed by the Director of the Doctoral Program. The Committee can also invite other qualified persons to participate during the defense of the dissertation.

The Committee must officially approve the dissertation before this requirement can be completed. The student must comply with all the requirements to obtain the degree in a period of seven (7) years of having started in the Program. After those seven (7) years, an annual extension may be awarded up to a maximum of three. The extensions will be awarded only based on the significant progress and work shown by the student during the year prior requesting the extension.

All candidates must be completely fluent in the Spanish language. They must also have sufficient competency in English to be able to carry out complex and long readings in this language. In addition, candidates must pass an examination certifying that they have the necessary reading skills in a third modern language. This examination must be passed after completing 24 credits of the Program. The student may not take more than one course per academic term until this requirement of the third modern language is met.

Graduation Requirements

1. Pass all the courses of the Program with a minimum grade of B.
2. Pass the comprehensive examination.
3. Show knowledge of a third modern language.
4. Successfully complete, present, and defend the doctoral dissertation.

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR THE DOCTORAL PROGRAM IN THEOLOGICAL STUDIES

Basic Requirements		12 credits
Specialization Requirements		18 credits
Operational Requirements		9 credits
Elective Courses		<u>6 credits</u>
	Total	45

Basic Requirements - 12 credits

THEO	7000	Fundamental Themes of Christian Theology	3
THEO	7010	Biblical Studies	3
THEO	7020	Christian Ethical Perspectives	3
THEO	7030	History of Christianity	3

Specialization Requirements - 18 credits

Students will choose one of the following specializations.

Specialization in Christian Education

THEO	7100	Contemporary Theories of Christian Education	3
THEO	7110	Theoretical and Philosophical Foundations of Educational Ministry	3
THEO	7120	Curricula and Methods in Popular Educational Theology	3
THEO	7140	Christian Education and Moral Formation	3
THEO	7170	Christian Ecumenism and Religious Education	3

THEO	7180	Spirituality and the Religious Experience in Puerto Rico	3
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Specialization in Pastoral Theology

THEO	7200	Towards a Puerto Rican Pastoral Work	3
THEO	7220	New Religious Movements in the Americas	3
THEO	7260	Theology of Pastoral Action	3
THEO	7270	Christology and Pastoral Action	3
THEO	8010	Theory of the Theological Method	3
THEO	8020	Human Suffering and the Problem of Evil and Love	3

Operational Requirements - 9 credits

EDUC	7060	Research Methods I	3
THEO	8993	Dissertation Proposal	3
THEO	8994	Dissertation	3

Prescribed Distributive Requirements - 6 credits

Six (6) credits must be selected from the remaining courses of the Theological Studies Program

University Teaching (M.A.)

The Master of Arts Degree in University Teaching is directed towards preparing professionals to perform as educators in higher education. This degree presents an academic offering in harmony with the educational needs of educators at the higher education level in different university contexts in Latin America. The curricular design comprises four (4) fundamental areas.

- Philosophical, Historical and Social Foundations of universities
- Theories and Methodologies for Educational Practice
- Research
- Technology

Students registered in the Program must have access to a computer with connection to the Internet. They must also have basic knowledge of computer handling and be able to work with word processing and electronic presentation applications and navigate the Internet.

Students desiring to enter the Master of Arts Degree in University Teaching may replace the admission tests stipulated in the Graduate Catalog with an equivalent test.

This Masters will be offered in the distance education modality.

The Metropolitan Campus is authorized to offer this Program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN UNIVERSITY TEACHING

Philosophical, Historical and Social Foundations of Universities Requirements	6 credits
Theories and Methodologies for Educational Practice Requirements	9 credits
Research Requirements	9 credits
Technology Requirements	<u>6 credits</u>
Total	30

Philosophical, Historical and Social Foundations of Universities Requirements - 6 credits

EDUC	5200	Development and Future of Higher Education	3 credits
EDUC	6605	Current Problems and Controversies of Higher Education in Latin America	3 credits

Theories and Methodologies for the Educational Practice Requirements - 9 credits

EDUC	6024	Educational Measurements and Evaluation	3 credits
EDUC	6610	Learning Theories and Teaching Models in Higher Education	3 credits
EDUC	6620	Planning and Educational Design in Higher Education	3 credits

Research Requirements - 9 credits

EDUC	5111	Educational Research I	3 credits
EDUC	5112	Educational Research II	3 credits
EDUC	697A	Integration Seminar	3 credits

Technology Requirements - 6 credits

EDUC	6601	Virtual Learning Communities in Higher Education :Experience I	1 credit
EDUC	6602	Virtual Learning Communities in Higher Education: Experience II	1 credit
EDUC	6603	Virtual Learning Communities in Higher Education: Experience III	1 credit
EDUC	6615	Educational Technology in Higher Education	3 credits

Course Descriptions

Courses in Accounting (ACCT)

ACCT 5101 FINANCIAL ACCOUNTING

Analysis and application of the theory of financial accounting at an advanced level. Preparation of financial reports for corporations and partnerships, consolidation of financial statements, mergers and acquisitions, taxes, issuance and valuation of stocks and bonds, and financial report analysis and interpretation. Discussion and analysis of current topics developing within the accounting profession. Prerequisites: ACCT 2252.

3 credits

ACCT 6110 ACCOUNTING FOR NON-PROFIT ORGANIZATIONS

Application of accounting norms that apply to non-profit organizations. Emphasis on the accounting principles applicable to: government, hospitals, universities, health organizations, and social welfare, among others.

3 credits

ACCT 6120 COMMERCIAL LAW FOR ACCOUNTANTS

Study of the United States Uniform Code of Commerce. Emphasis on contractual law, commercial laws, labor laws, ethical-legal responsibility of Certified Public Accountants and other laws related to the practice of the profession.

3 credits

ACCT 6220 BUDGET PLANNING AND CONTROL

Study of the process of budget preparation and use as a tool for managerial decision making. Includes aspects related to the budget, from its initial stages to the control process once it is implemented. Prerequisite: BADM 5040.

3 credits

ACCT 6410 INTERNATIONAL ACCOUNTING

Analysis of the main topics in international accounting such as national accounting systems and their effect on financial statements, decision making, the development of international accounting principles, the conversion of foreign currency, accounting in time of inflation, conversion prices and their implication in taxes. Comparison and analysis of accounting of several countries, discussion of coordination of accounting, with emphasis on logic, profits, ethical practices, consequences and problems that this coordination entails.

3 credits

ACCT 6420 INTERNATIONAL FINANCIAL STATEMENTS AND THEIR ANALYSIS

View of international accounting in the context of multinational company management. Application of a practical analysis of international financial statements and analysis in special situations. Definition and discussion of the conversion of financial statements to the local currency, the accounting and economic risk in foreign currency transactions and accounting for protection strategies.

3 credits

ACCT 6430 ADVANCED INTERNAL AUDITING

Review of academic literature related to internal auditing. Use of an auditing cycle (planning, field work, findings report, recommendations and discussion of this). Description of the function of the internal auditor within the administrative structure of a company at the local and international levels. Establishment of the responsibilities of internal auditors and their relationship with external auditors, management and the board of directors. Discussion of auditing procedures in multinational dependencies.

3 credits

ACCT 6440 FORENSIC ACCOUNTING

Study of the research, manifestation, documentation and prevention of fraud. Analysis of fraud and the tools, techniques and methods of auditing it, and investigative accounting in multinational companies. Case studies and

presentations by students will be used to recognize the different stages of the development of forensic accounting and its application in multinational companies.

3 credits

ACCT 6940 AUDIT SEMINAR

Analysis of special topics within the audit field by means of research, case analysis and related readings. Prerequisite: BADM 6300.

3 credits

ACCT 6945 SEMINAR ON TAXES

Analysis of special topics within the Puerto Rico and Federal Tax Laws. Analysis of the most recent changes in these codes, by means of research, case analysis and related readings.

3 credits

ACCT 6980 RESEARCH SEMINAR

Research methods and techniques applied to accounting. Includes the design of a research proposal.

3 credits

ACCT 6985 RESEARCH PROJECT

Design and development of a research project on a current topic or problem related to accounting.

3 credits

Courses in Anesthesia (ANES)

ANES 5105 BIOCHEMISTRY AND PHYSICS

Concepts related to biochemistry and physics. Biochemical elements that facilitate the comprehension of pharmacokinetics and pharmacodynamics of anesthetic agents. Application of the laws of physics in the use of equipment and instruments in anesthesia.

3 credits

ANES 5110 INTRODUCTION TO ANESTHESIOLOGY

Historical development of anesthesia and current status of the anesthetist nurse in relation to other health professionals. Emphasis on moral-ethical and medical-legal considerations of anesthetic nursing practice and professional aspects of the anesthetist nurse.

2 credits

ANES 5111 PATHOPHYSIOLOGY I: CELLULAR AND CIRCULATORY

Analysis of anatomy, physiology, cellular and cardiovascular pathophysiology with emphasis on the effects produced by the application of anesthesia.

3 credits

ANES 5112 PATHOPHYSIOLOGY II: BLOOD, CARDIOVASCULAR, RESPIRATORY AND RENAL

Analysis of the anatomy, physiology and pathophysiology of the cardiovascular, respiratory and renal systems and the implications related to anesthesia. Study of the ventilation and perfusion concepts and how these relate to oxygen, the administering of anesthesia and metabolism. Discussion of blood composition and the coagulation paths. Study of the effects in the cardiac and pulmonary commitment, renal function and its implications for administering anesthesia to the patient.

3 credits

ANES 5113 PATHOPHYSIOLOGY III: BALANCE OF ACID-BASE, ENDOCRINE AND GASTROINTESTINAL SYSTEMS

Analysis of the anatomy, physiology and pathophysiology of the acid-base of the endocrine and gastrointestinal systems. Discussion of the effects produced by the application of anesthesia in both systems. Prerequisite: ANES 5112.

3 credits

ANES 5121 PRINCIPLES OF ANESTHESIA I

Fundamentals of anesthetic management. Evaluation of pre and post anesthetic phase premedication, formulation of the anesthesia care plan, anesthetic techniques and procedures, endotracheal intubation equipment, documentation and prevention of complications. Mechanical principles governing the operation of anesthesia equipment and safety mechanisms. Corequisite: ANES 5122.

2 credits

ANES 5122 CLINICAL PRACTICE ON PRINCIPLES OF ANESTHESIA I

Use of medical history data. Holistic evaluation of the patient. Preparation of the anesthesia care plan. Performance of the following skills: endotracheal intubation, induction and management of the patient under the effects of anesthesia. Practice in anesthesia equipment and safety mechanisms. Eight hours of clinical practice weekly. Corequisite: ANES 5121.

1 credit

ANES 5131 PHARMACOLOGY ANESTHETICS I: ANESTHETICS

Pharmacokinetics and pharmacodynamic of drugs used in premedication and anesthetic agents. Emphasis on determining dosage, mechanisms of action, characteristics of drugs effects, toxicity, secondary effects and interactions with other medications.

3 credits

ANES 5132 PHARMACOLOGY ANESTHETICS II: MEDICAL DRUGS

Pharmacokinetics and pharmacodynamics of autonomic drugs, muscular relaxers and local anesthetics used in the practice of anesthesia. Prerequisite: ANES 5131.

3 credits

ANES 5221 PRINCIPLES OF ANESTHESIA II: GENERAL SURGERY

Physical and mechanical bases for the management of monitors. Reading and interpretation of data obtained through monitors in the surgery room with patients with elective general surgery. Corequisite: ANES 5222. Prerequisites: ANES 5111, 5122.

2 credits

ANES 5222 CLINICAL PRACTICE ON PRINCIPLES OF ANESTHESIA II

Application of the physical and mechanical principles of monitors. Administration of anesthetics to patients on invasive monitoring, elective and ambulatory surgery and neurological procedures. Twelve hours of practice weekly. Corequisite: ANES 5132. Prerequisite: ANES 5122.

2 credits

ANES 5307 REGIONAL ANESTHESIA

Theoretical and practical considerations for the administration and management of regional anesthetics. Pharmacological aspects in the administration of anesthetic blocks: spinal, epidural and caudal. The use of local anesthetics is included.

2 credits

ANES 5331 PRINCIPLES OF ANESTHESIA III: OBSTETRICS AND PEDIATRICS

Fundamentals on anesthetic management in obstetrics with emphasis on the pathophysiological condition of pregnancy in the obstetric process. Anesthetic management in pediatrics including anatomic, physiological and pathological characteristics from infancy to late childhood. Corequisites: ANES 5222, 5332.

2 credits

ANES 5332 CLINICAL PRACTICE ON PRINCIPLES OF ANESTHESIA III

Practice on procedures to alleviate pain. Preparation of the patient for the administration of regional and general anesthesia. Assessment and management of the fetus, mother and the child. Tracheal intubation considering the

quantitative and qualitative differences of the patient. Continuous monitoring during the perianesthetic procedure. Twelve hours of practice weekly. Corequisite: ANES 5331. Prerequisite: ANES 5222.

2 credits

ANES 5431 PRINCIPLES OF ANESTHESIA IV: CARDIOTHORACIC AND NEUROLOGICAL

Anesthetic management of emergency patients and patients with trauma and in cardiothoracic surgery. Includes specific procedures in cardiothoracic anesthesia and neuroanesthesia. Prerequisites: ANES 5313, 5331.

2 credits

ANES 5432 CLINICAL PRACTICE ON PRINCIPLES OF ANESTHESIA IV

Administration of anesthesia to emergency patients and patients in trauma and in cardiothoracic and neurosurgery. Practice in specialized settings. Twelve hours of clinical practice weekly. Corequisite: ANES 5431. Prerequisite: ANES 5332.

2 credits

ANES 5497 TRENDS AND CONTROVERSIES IN ANESTHESIOLOGY

Trends and controversial topics in modern anesthesiology, such as: practice standards, patients' bill of rights, new trends in anesthesiology; ethic-legal controversies, interaction with health organizations and other topics of particular interest.

2 credits

ANES 6390 CLINICAL ANALYSIS

Discussion of case studies chosen during the clinical practice. Emphasis on the analysis and decision-making in the perianesthetic process.

1 credit

ANES 6395 RESEARCH PROCESS

Introduction to the research process: methodology, techniques and statistical analysis. Research of a nursing anesthetic problem identified by the student through observation during the perianesthetic intervention. Oral and written presentation of the problem, methodology used, findings and recommendations to improve the practice of anesthetic nursing. Prerequisite: ANES 5432.

3 credits

ANES 6397 ADMINISTRATION AND SUPERVISION

Processes and techniques of administration and clinical supervision. Use of technology in clinical services. Theory and practice in quality control of personnel, equipment, materials and documents required in the anesthesia area.

2 credits

ANES 6911 INTEGRATED SUPERVISED PRACTICE I

Integration of knowledge and skills acquired from courses. Application of methods and techniques of administration of anesthetic and pharmacological agents. Intensive practice on pharmacological agents. Intensive practice in specialized settings under the supervision of an anesthesiologist and/or anesthetic nurse. Students begin with "on call" experiences. Sixteen hours of practice weekly. Prerequisite: ANES 5432.

2 credits

ANES 6912 INTEGRATED SUPERVISED PRACTICE II

Independent practice where the student acts as head anesthetist nurse under the indirect supervision of a clinical instructor (anesthesiologist or anesthetic nursing). Clinical experience at different levels of administration and supervision within the Department of Anesthesia. Sixteen hours of practice weekly. Prerequisite: ANES 6911.

2 credits

ANES 6970 SEMINAR

Analysis and concept integration of the physiology and pharmacology courses and basic and advanced principles of anesthesia that contribute to the professional development of students.

3 credits

Courses in Biology (BIOL)

BIOL 5001 INTEGRATED BIOLOGY I

Analysis of the structures of biomolecules and how these are related to their respective functions, their role in the regulation of the organelles, the cells and organisms in general.

3 credits

BIOL 5002 INTEGRATED BIOLOGY II

Analysis of the translation of signals that dictate the cellular function and embryonic development. Relation between the biomolecular aspects and the interaction of the organism with its environment. Prerequisite: BIOL 5001.

3 credits

BIOL 5017 BIOCHEMISTRY AND CELLULAR PHYSIOLOGY

Cellular metabolism from the structural and physiological points of view. The principal organic molecules that are important for living organisms and the vital metabolic processes related to these are studied.

3 credits

BIOL 5019 HISTORY AND PHILOSOPHY OF SCIENCE

Historical and philosophical circumstances related to the development in the study of the natural sciences. Emphasis on the study of ideas and concepts characterizing modern scientific thought. The conceptual problems of the natural sciences and their interrelationship with the social sciences are studied.

3 credits

BIOL 6003 MOLECULAR IMMUNOLOGY

Analysis of the molecular mechanisms used by the immunological system to recognize the antigens, to obtain their activation and the elimination of molecules, cells and organisms alien to the body. Clinical problems are included, mainly immunological ones. Emphasis on the interpretation of recent scientific readings presenting experimental studies in the field of molecular immunology.

3 credits

BIOL 6004 MOLECULAR GENETICS

Analysis of the hereditary characteristics, the relation between genes and the ruling of the genetic expression. Emphasis on molecular genetic research techniques. Includes topics such as structure and function of the genes, recombinant DNA, expression mechanism in prokaryotic and eukaryotic cells, genomic instability, cellular cycle control, proliferation, repair and apoptosis.

3 credits

BIOL 6005 BIOTECHNOLOGY AND BIOINFORMATICS

Analysis of the foundations of molecular biology that are the basis for the development and the applications of biotechnology. Includes the basic aspects of recombinant DNA technology, the methodology, techniques and processes that are necessary for the development of any biotechnological application. Emphasis on the studies of genomes, manipulation of genes, generation and handling of biological sequences and structural information, including the relation between sequence, structure and function of macro-molecules.

3 credits

BIOL 6006 BIOMOLECULAR TECHNIQUES LABORATORY

Training and development of research and scientific thought abilities. Includes the conduct of experiments of a biomolecular nature to become familiar with the methodologies and equipment used in research laboratories. Requires 45 hours of lecture/lab.

3 credits

BIOL 6007 PLANT BIOTECHNOLOGY

Analysis of the foundations of molecular biology of plants and the developments of technologies for their genetic manipulation. Includes the cellular and molecular mechanisms that regulate the vegetal cell and the organism in its totality. Emphasis on the structure and function of the genes and genomes and the development of transgenic systems and of the metabolic genetic engineering, the environmental impact of transgenic plants and the regulations that govern their use. Requires 45 hours of lecture/lab.

3 credits

BIOL 6008 ADVANCED VIROLOGY

Analysis of the general, physical and genetic characteristics of the main groups of viruses that infect humans with pathogenic interest. Emphasis on the cycles of infection and viral duplication at the molecular and cellular level. In addition, the fundamental aspects of the relation of the virus with the infecting cell guest and the immune response are discussed.

3 credits

BIOL 6009 BIOREMEDIATION

Analysis of the foundations of remediation of contaminated environments by means of the use of biological methods. Analysis of the development and use of microorganisms, and natural and genetically modified plants for the treatment of waters, land and sediments.

3 credits

BIOL 6010 PROTOZOOLOGY

Analysis of the main groups of protozoa that affect man and other animals. Emphasis on basic biological aspects, structure, ecology, survival strategies, their transmission and control.

3 credits

BIOL 6013 ENVIRONMENTAL MICROBIOLOGY

Analysis of the interactions between microorganisms and their biotic and a-biotic environment. Emphasis on the distribution, function and impact of microorganisms in the environment. Use of microorganisms as instruments of bioremediation and conservation. Requires 45 hours of lecture/lab.

3 credits

BIOL 6014 BACTERIOLOGICAL DIAGNOSIS

Analysis of the general principles that govern the identification of the organisms. Study of the selection, collection and transportation of clinical samples and other products. Includes the study of conventional and fast methods of identification of microorganisms. The systems of classification of organisms and the main groups of bacteria. Requires 45 hours of lecture/lab.

3 credits

BIOL 6103 TROPICAL ECOLOGY

Analysis of the evolution of species in the tropics. Emphasis on tropical communities and ecosystems. Emphasis on the biotic and a-biotic interactions that influence the biodiversity of the tropics. Includes the flow of energy through the trophic network. Requires 45 hours of lecture/lab.

3 credits

BIOL 6104 POPULATION ECOLOGY

Analysis of the dynamics of populations and importance in the evolutionary mechanisms. Focus on demography, population growth and control of tropical organisms. Includes the techniques of population studies, marks and recapture, histories of life and genetics of populations. Requires 45 hours of lecture/lab.

3 credits

BIOL 6105 ISLAND BIOGEOGRAPHY

Analysis of the geologic origins and the biodiversity of islands. Focuses on the a-biotic and biotic processes that influence the ecological and evolutionary processes in islands. Emphasis on islands as models for the study of evolution and conservation.

3 credits

BIOL 6107 POLLUTION AND ECOLOGICAL SYSTEMS

Analysis of the main factors that govern the ecosystems and the impact of contamination on them. Analysis of the flow of polluting agents and toxic compounds through the environment.

3 credits

BIOL 6108 ENVIRONMENTAL PHYSIOLOGY OF ANIMALS

Analysis of the physiological aspects of ecology and conservation. Analysis of the evolution and operation of physiological systems in relation to the environment. Emphasis on the dynamics of the natural history of animals and their dependency of the environment in which they develop, with special attention to the hydro, energy, locomotion and thermoregulation balance of terrestrial vertebrates in islands.

3 credits

BIOL 6904 CELLULAR BIOLOGY

Analysis of the function and structure of cells, tissue, organs and their organizational levels, including physical and chemical mechanisms. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Biology.

3 credits

BIOL 6905 MOLECULAR BIOLOGY

Comprehensive study and analysis of topics in structure and expression of nucleic acid, repair and genetic regulation, recombination and transcription of the DNA, the genetic code and protein synthesis, cellular division and carcinogenesis, in addition to the basic principles of biotechnology. Laboratory demonstrations are included. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Biology.

3 credits

BIOL 6906 HUMAN PHYSIOLOGY

Comprehensive study and analysis of human body function. Emphasis on the integration of basic functions from the cellular level to the total organism. Integration of physiological concepts for problem solving. Laboratory demonstrations will be included. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Biology.

3 credits

BIOL 6907 IMMUNOLOGY

Study and analysis of the cellular, humeral and molecular aspects of immune reactions. There will be an introduction to the immunocitochemistry. Emphasis on antigen-antibody reactions. Laboratory demonstrations will be included. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Biology.

3 credits

BIOL 6908 MARINE BIOLOGY

Comprehensive course that includes the general description of tropical marine ecosystems and the integrated study of oceanographic processes of the communities of the costal area, beaches, rocky coast, areas of marine grass, mangrove swamps and coral reef. The interactions of the plankton and bentikos ecosystems, nutrient cycle, productivity and trophic chains will be described. Field trips will be included. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Biology.

3 credits

BIOL 6909 BIOGEOGRAPHY

Study of space distribution patterns of flora and fauna on the earth's surface. Designed with a multidisciplinary approach with emphasis on the connection of ecology, geography, geology and the evolutionary history of earth organisms. Field trips will be included. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Biology.

3 credits

BIOL 6910 ENVIRONMENTAL SCIENCE

Study and analysis of the principle concepts and forms of teaching environmental science at the primary and secondary school levels. Emphasis on the scientific aspects of environmental studies, including the description and analysis of socioeconomic and cultural factors that affect the natural environment and ecosystems. Field trips will be included. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Biology.

3 credits

BIOL 6971 SEMINAR I

Analysis of recent scientific articles in the different areas of Biology. Emphasis on the discussion of the most recent techniques and the analysis of the results. Grade: P/NP.

1 credit

BIOL 6972 SEMINAR II

Preparation of an oral presentation of a topic in the area of biology, using as its basis recent scientific articles. Prerequisite: BIOL 6971. Grade: P/NP.

1 credit

BIOL 6991 THESIS I

Development and presentation of a research proposal and the later conduct of a scientific research work based on this proposal. This proposal must have the approval of the thesis adviser. Grade: P/NP.

4 credits

BIOL 6992 THESIS II

Development of the scientific research work proposed in BIOL 6991. Grade: P/NP.

4 credits

BIOL 6993 THESIS III

Completion and presentation of the scientific research work initiated in BIOL 6991 and continued in BIOL 6992. Grade: P/NP or TP.

4 credits

Courses in Business Administration (BADM)**BADM 5010 QUANTITATIVE METHODS FOR DECISION MAKING**

Study of the quantitative methods for decision making, in particular the application of mathematical and statistical models in the analysis of problems related to economic and administrative sciences. The main topics include probability and decision making analysis, game theory, analysis under uncertain conditions, and network analysis. Includes simulations.

3 credits

BADM 5020 MANAGERIAL ECONOMICS

Nature of demand and economic aspects of production in firms. Optimization techniques and the use of analytical economic methods in the managerial decision-making process. Analysis of risk and decision-making under conditions of uncertainty.

3 credits

BADM 5030 ENTERPRISE RESEARCH METHODOLOGY

Application of the scientific method in the solution of enterprise problems. The quantitative and qualitative research methodology and terminology will be used. Study of the research process, methodology, techniques and statistical analysis. Includes the preparation of a research proposal.

3 credits

BADM 5040 ACCOUNTING FOR MANAGERS

Analysis of financial accounting as a managerial tool; the role of the accounting executive in the company or firm and financial statements interpretation. Use of cost accounting information as a managerial tool.

3 credits

BADM 5060 MANAGEMENT INFORMATION SYSTEMS

Management information systems and their impact on management problems as well as their effect on the organization. Development of analytical skills for selecting information systems based on electronic computers and their relationship to the managerial decision-making process.

3 credits

BADM 5070 PUBLIC POLICY TOWARDS BUSINESS

Analysis of the government's monetary, fiscal and regulatory policies regarding business cycles and their impact on firms. Study of current trends in these areas at the local, national and international government levels.

3 credits

BADM 5090 MARKETING MANAGEMENT

Marketing from the individual firm viewpoint. Interaction between the company, the market and the environment. Managerial marketing functions and their integration in conjunction with models of planning and decision-making.

3 credits

BADM 5100 ORGANIZATIONAL THEORY AND BEHAVIOR

Review of the major approaches to the study of organizations from a psychosocial point of view. Topics include small group behavior, system of power and influence, interpersonal conflict, individual motivation, organizational structure, dynamics and change and their implications for management, social welfare systems and the social and personal needs of the group and the individual.

3 credits

BADM 5120 OPERATIONS MANAGEMENT

Development of ways to define, analyze and solve complex operational problems in all types of organizations. Analysis of problems associated with the effective use of strategic resources.

3 credits

BADM 5130 ORGANIZATIONAL BEHAVIOR

Basic topics on organizational behavior, including motivation, communication, leadership, performance, organizational design, professional planning, power and conflict. The course aims to provide the knowledge and skills needed to work with individuals and groups as members of social and business systems.

3 credits

BADM 5140 LEGAL AND SOCIAL ENVIRONMENT IN BUSINESS

Legal systems focusing on the managerial decision-making process. Special attention is given to the relationship between firms and the government and on how laws and the environment affect business activities. Contemporary legal problems and lawmaking trends are considered.

3 credits

BADM 5150 ORGANIZATIONAL THEORY

Individual and group behavior in the organizational context, viewing the organization as a continuous social system. Analysis of organizational problems of change and development and of organizational processes.

3 credits

BADM 5190 MANAGERIAL FINANCE I

Review of the fundamental aspects of financial decision-making in its theoretical, technical and practical dimensions. Study of investment decision-making in working capital and short and long term financing.

3 credits

BADM 5470 FOUNDATIONS OF KNOWLEDGE MANAGEMENT

Description of the nature, evolution and theoretical concepts of the knowledge management in organizations, such as: tacit knowledge, explicit knowledge and learning.

3 credits

BADM 6010 HUMAN RESOURCES MANAGEMENT IN THE INTERNATIONAL ENVIRONMENT

Critical analysis of the foundations, processes and policies inherent to the management of human resources in an international environment. Analysis of the fundamental vision of the dynamics of changes in the economic, political, socio-cultural and technological environment in the contemporary world. Evaluation of the impact of these transformations in the organizational structural models to obtain competitiveness in the globalized economy. Discussion of the characteristics of the recruitment, selection and development functions and the legal and financial responsibilities of personnel administration at the international level.

3 credits

BADM 6020 TRAINING, DEVELOPMENT AND ADMINISTRATION OF HUMAN RESOURCES

Design of training programs for the development and administration of human resources by applying the theory of life experiences in each specific situation.

3 credits

BADM 6030 DATABASE SYSTEMS

Fundamental concepts for the design and implementation of database systems from the perspective of different levels of abstraction and data models: conceptual, logical and physical. Algebraic and relational calculus operations, Structured Query language (SQL), Data Definition Language (DDL) and Data Manipulation Language (DML). Trends, technologies and most influential current models of databases, including object oriented, semantic and deductive models. Prerequisite: BADM 5060.

3 credits

BADM 6040 SYSTEM ANALYSIS AND DESIGN

Techniques and methodologies used to develop information systems in the organization, including steps and procedures to follow from the initiation of a new system until its implementation in the enterprise. Application of computerized tools that facilitate the analysis and design of an information system. Prerequisite: BADM 6030.

3 credits

BADM 6050 INTERNET: SUPERHIGHWAY FOR INFORMATION

World Wide Web (WWW) as the fundamental platform, its essential characteristics, tools and languages. Electronic business and recent developments in information services, including new work strategies, structural organizations

and creative ways to reach customers. Challenges facing individuals, organizations and society due to the development of the superhighway for information. Prerequisite: BADM 5060.

3 credits

BADM 6060 BANKING ADMINISTRATION

Analysis of the principles and managerial processes required for the administration of commercial banks.

3 credits

BADM 6070 HUMAN RESOURCE ADMINISTRATION

Analysis of the philosophy, techniques and policies in the administration of human resources. Application of behavioral sciences to personnel problems.

3 credits

BADM 6080 SALARY ADMINISTRATION

Economic aspects in wage determination. Emphasis of job evaluation, incentive systems and the classification of activities related to the remuneration of employees for work performed.

3 credits

BADM 6090 SUPERVISION AND LEADERSHIP

Behavioral science research related to the functions and duties of management personnel with emphasis on line supervision. Role playing in supervisory problems.

3 credits

BADM 6100 INTRODUCTION TO INDUSTRIAL MANAGEMENT

Principles related to the effective use of the factors of production in manufacturing and non-manufacturing activities. Study of production organization and methods, facilities and the design of control systems of production operations.

3 credits

BADM 6110 WORK MEASUREMENT AND METHODS OF IMPROVEMENT

Job simplification and laborsaving, operation analysis, operation-time standards and their determination, performance rating and allowances, work measurement by statistical sampling and labor cost control.

3 credits

BADM 6120 ANALYSIS OF PRODUCTION SYSTEMS

Design and operation of manual, mechanized and automatic production lines: material movement, balancing stations, work-loads for flow production, physiological and psychological factors in task design, support activities and flexibility.

3 credits

BADM 6130 PRODUCTION PLANNING AND CONTROL

Inventory theories, production models and programming, quality and cost control, design of production information and control systems.

3 credits

BADM 6140 INDUSTRIAL PLANT MANAGEMENT

Case studies in industrial plant management and policy decisions related to the coordination of plant functioning and its organization.

3 credits

BADM 6150 PUBLIC FINANCE AND FISCAL POLICY

Use of public finance to analyze the decision making process in the public sector. Analysis of the economic effects of government activity; tax expenses and income. Discussion of current fiscal policy problems.

3 credits

BADM 6160 MARKETING RESEARCH

Application of research methods to marketing problems. Emphasis on the decision, sampling and information analysis theory for the solution of problems. Prerequisite: BADM 5090.

3 credits

BADM 6170 ADVANCED METHODS IN PRODUCTION PLANNING AND CONTROL

Application of operations research to production planning and control: linear programming, queuing theory, probability models; PERT, simulation and use of computers.

3 credits

BADM 6180 ADVANCED COST ACCOUNTING

Financial information analysis, planning, budget and other related aspects as instruments for managerial and production decision making. Emphasis on cost allocation, its distribution and breakeven analysis.

3 credits

BADM 6190 MANAGERIAL FINANCE II

Analysis of the company's financial administration. Emphasis on valuation concepts and approaches, factors and variables on decision making of investment in assets and capital structure and dividend policy. Study of portfolio investment theory and valuation of capital asset models. Prerequisite: BADM 5190.

3 credits

BADM 6200 INTERNATIONAL BUSINESS FINANCE

Study of the structure and functioning of foreign currency markets and of the factors that determine the exchange rates of currencies. Analysis of investment decision-making and the financing of companies and institutions from a global perspective.

3 credits

BADM 6210 FINANCIAL ADMINISTRATION OF RETIREMENT PLANS

Study of the characteristics and operations of defined benefits and tax plans. The processes of investment and financial administration are analyzed in detail from the point of view of duty and of the fiduciary process provided by the *Employee Retirement Income Security Act* (ERISA) and applicable norms.

3 credits

BADM 6220 MONETARY THEORY AND POLICY

Analysis of the economic interrelations between the monetary supply and demand and the influence of these on the general level of economic activity. Study of the formulation and implementation of today's monetary policies.

3 credits

BADM 6230 INVESTMENTS

Analysis of the factors and variables on decision making of financial instrument investment. Emphasis on the understanding of techniques and models of capital assets valuation, individually as well as in the context of instruments portfolios and of valuation relative to the market. Study of the different types of patrimony, debt and derivative financial instruments, as well as, of their respective markets. Prerequisite: BADM 5190.

3 credits

BADM 6240 FINANCIAL MARKETS

Study of the processes of change and innovations, instruments of value of public and private institutions in financial markets and the regulations to which they are subject. Emphasis on understanding the behavior of interest rates in the market, monetary policy and the financial administration of financial intermediaries.

3 credits

BADM 6250 TELECOMMUNICATIONS AND NETWORKS

Technologies, architectures, protocols and characteristics of network performance. Strategies, tools and techniques for planning, implementation, management, maintenance and security of networks. Recent developments and applications in the field of telecommunications and computerized networks. Prerequisite: BADM 5060.

3 credits

BADM 6260 ADVANCED PROGRAMMING

Advanced concepts in computer programming. Use, handling and practical application of a selected programming language and its impact within businesses and organizations. Prerequisite: BADM 5060.

3 credits

BADM 6270 DECISION SUPPORT AND EXPERT SYSTEMS

Techniques and modalities for the design and implementation of Decision Support Systems, Expert Systems, Group Support Systems, Executive Information Systems, Artificial Neural Networks and Diffuse Logic. Combination of these systems and their application in enterprises. Prerequisite: BADM 5060.

3 credits

BADM 6280 MANAGEMENT OF INFORMATION TECHNOLOGY

Information as a corporate resource. Relations between information, information technology, business strategies, and organizational design. Impact of the innovations in information technology and in organizations. Prerequisite: BADM 6040.

3 credits

BADM 6290 LOGISTICS OF TRANSPORTATION SYSTEMS

Fundamentals of terrestrial, aerial and marine systems of transportation management. Analysis of the economy, intermodal strategies, documentation, regulations and operation of transportation systems. Study of distribution systems of the supply chain, transportation of dangerous materials, safety and the operation of airports and seaports.

3 credits

BADM 6295 INTERNATIONAL OPERATIONS

Aspects of operations management in a global environment. Analysis of the production systems, chain of international supplies and strategies of operation competitiveness at the global level. Emphasis on global communication systems, resource allocation, capital investment and facility planning in a multinational environment.

3 credits

BADM 6300 ADVANCED AUDITING

Evaluation and application of the Generally Accepted Auditing Standards (GAAS). Analysis of trends in the practice of the profession. Study of the auditing process and other related services. Analysis of the external auditor's role in agreement with the norms and laws that regulate the practice of the profession.

3 credits

BADM 6310 CONTEMPORARY ASPECTS OF ACCOUNTING

Evaluation and application of the Generally Accepted Accounting Principles. Analysis of the declarations emitted by the Financial Accounting Standards Board (FASB).

3 credits

BADM 6320 ADVANCED FEDERAL TAXES

Study of the Federal Tax Law, based on the analysis and handling of cases, research, alternatives to file returns and readings on current tax practices.

3 credits

BADM 6330 ADVANCED PUERTO RICAN TAXES

Study of the Puerto Rican Tax Law, based on the analysis and handling of cases, research, alternatives to file returns and readings on current tax practices.

3 credits

BADM 6340 LEADERSHIP AND MOTIVATION

Analysis of the various styles of authority and leadership and their effectiveness on the different levels of the organization. Evaluation of the theories of personal motivation, their effectiveness and practicability.

3 credits

BADM 6350 STRATEGIC MARKETING

Introduction to problems in the decision-making process at managerial levels within the different marketing strategies that develop during the planning period.

3 credits

BADM 6360 MARKETING COMMUNICATION

Application of principles and concepts of communication in the managerial process. Analysis and solution of promotional problems arising in any organization. Emphasis on the five variables of the promotional program, their application and the implementation of marketing strategies. Prerequisite: BADM 5090.

3 credits

BADM 6370 SALES FORECASTING AND ANALYSIS

Study of the economic and socio-psychological determinants of the demand for goods and service as a forecast of general business conditions, the demand for the product of an industry and the sales of a particular company. Use of the sales forecast in business planning and decision-making.

3 credits

BADM 6380 CONSUMER BEHAVIOR

Evaluation of the personal and social factors that influence decision making in obtaining, consuming and purchase of products and services. Study of economic concepts and social sciences that help understand and forecast the behavior of the different types of consumers in the market. Prerequisite: BADM 5090.

3 credits

BADM 6390 GLOBAL MARKETING

Analysis of the world-wide markets of comparative systems and the process of marketing across political boundaries. Both macro and micro approaches are used in dealing with the interaction between international marketing and the cultural, geographic, economic and political features of major world regions. Emphasis on Latin America.

3 credits

BADM 6410 LABOR RELATIONS AND EXTERNAL ENVIRONMENT

Review of labor relations between management and labor organizations as well as the external environment that influences them. Analysis of the social, economic, political and technological factors that have affected the development of the labor movements and collective bargaining. The impact of relations on the general public and the news media is considered.

3 credits

BADM 6415 INTERNATIONAL ADMINISTRATION OF SALARIES, BENEFITS AND SERVICES

Demonstration of the components and strategies of an effective model of total compensation in organizations immersed in the contemporary globalized economy, from the macroeconomic and microeconomic perspectives. Discussion of the legal and taxing aspects that impact remuneration in multinational companies and special programs of incentives, benefits and services to personnel sent from their country on international assignments.

3 credits

BADM 6420 ORGANIZATIONAL PLANNING

Major administrative functions such as planning, direction, coordination and control. Study of objectives and techniques of planning and prediction. Evaluation of the effectiveness of different administration styles. The methods and intended purposes of control and coordination and their relationship with planning, directing, coordinating and controlling.

3 credits

BADM 6430 ADMINISTRATION OF INTELLECTUAL CAPITAL

Analysis of the essential components of intellectual capital and of management in the administration of companies. Estimate of the existing intellectual capital in the organization and in the market. Prerequisite: BADM 5470.

3 credits

BADM 6440 ADVANCED PERSONNEL ADMINISTRATION

Study of the objectives, functions and procedures of personnel administration by examining contemporary theories. The needs of personnel administration of large and complex organizations of both the private and public sector are examined. Use of a comprehensive personnel program as an example of the broad administration of the organization.

3 credits

BADM 6450 DECISION-MAKING

Economic and financial business problems and the techniques used in the decision-making process for their solution. Emphasis on the practical aspects of decision-making problems pertaining to the use of organizational resources. Discussion of business objectives, demand concepts, market structure, costs, capital flow as well as the different economic decision-making techniques.

3 credits

BADM 6460 RISK AND INSURANCE

Fundamental principles and practices in the management of insurance. Emphasis on terminology, expedition and contents of contracts. Study of the methods used to deal with economic risks.

3 credits

BADM 6470 STRATEGIES OF KNOWLEDGE MANAGEMENT

Evaluation of advanced topics and the research related to the knowledge management. Application of the practical knowledge on general management and the tactics to design, integrate and apply strategies based on the use of knowledge. Prerequisite: BADM 6430.

3 credits

BADM 6500 INTEGRATION SEMINAR ON ENTERPRENURIAL STRATEGIES

Analysis of the factors to be considered in the formulation and selection of strategies and policies for the development and operations of companies in local and international competitive markets. Prerequisite: Have completed all core courses. Grade P/NP.

3 credits

BADM 6510 INTERNATIONAL LABOR ECONOMICS

Analysis of the problems related to the labor market and labor relations in the new order of the globalized economy. Definition of microeconomic aspects and relationships on an individual and enterprise scale, macroeconomic matters as policies for employment and social welfare. Use of research of specific markets, demographic and migratory changes of the work force in an international environment, problems of cultural diversity and participation of minority groups in the labor market, labor supply and demands, unemployment and inflation. Discussion of governmental strategies of labor promotion and investment in human capital, industrial policies and protection against competition, salary scales, collective bargaining and trends in social security plans.

3 credits

BADM 6550 SEMINAR ON CURRENT MARKETING TOPICS

Analysis of general and specific current topics related to the marketing field. Study of managing situations and tendencies faced by marketing management, which impact short, medium, and long term strategies. Prerequisite: BADM 5090.

3 credits

BADM 6700 GLOBAL BUSINESS

Analysis of global business and investments with emphasis on the Caribbean and Latin American regions. Comparative management approaches and business behavior in these areas. Prerequisite: BADM 5090.

3 credits

BADM 6780 THE MANAGER IN AN INTERNATIONAL ECONOMY

Principles and practices of behavior in businesses that extend beyond national boundaries. Discussion of important international agreements, considering the multiple roles that a manager can play at the international level.

3 credits

BADM 6820 MULTINATIONAL ENTERPRISES

Review of the interaction of forces that promote the formation and expansion of the multinational enterprise. Analysis of the relations between the private and public sector. Historical origin of these enterprises, the legal frame within which they operate and financial resources. Discussion of specific aspects of operation such as production methods, marketing, personnel administration, research and development.

3 credits

BADM 6910 PRACTICE IN HUMAN RESOURCES

Supervised practice in the tasks appropriate for human resource supervisors. Practice will be under the supervision of a faculty member and will consist of a minimum of 120 hours of practice. Includes periodic meetings and visits to a practice center with a faculty member. Prerequisites: Have passed three courses of the specialization and have the authorization of the Department Director.

3 credits

BADM 6945 SMALL BUSINESS INSTITUTE INTEGRATION SEMINAR

Designed to give the graduate student the opportunity to provide consulting services to clients of the Small Business Administration. Class work, field research, business analysis and report writing with recommendations and conclusions are integrated into the course.

3 credits

BADM 6957 INTEGRATION SEMINAR IN INFORMATION SYSTEMS

Research on topics related to the latest advances and developments in information systems, and on general information technology to integrate knowledge in this field and in related areas. Analysis of the impact of such advances in the management of information resources and the ethical implications within the organization. Prerequisite: Have completed all specialization courses. Grade P/NP.

3 credits

BADM 697A INTEGRATION SEMINAR IN ACCOUNTING

Application of the knowledge acquired in the different specialization courses. Includes aspects related to financial accounting, cost accounting, auditing and other related topics. Prerequisite: Have completed all specialization courses. Grade: P/NP.

3 credits

BADM 697B INTEGRATING SEMINAR IN FINANCE

Analysis of the financial decision making in the contemporary company. The financial decisions will be examined from an integrating perspective of the variables that affect them and that are included in the specialization courses:

corporate finance, international finance, financial markets, public finances and fiscal policy, monetary theory and policy. Prerequisite: Have completed all specialization courses. Grade: P/NP.

3 credits

BADM 697C INTEGRATING SEMINAR IN HUMAN RESOURCES

Academic experience directed to students' mastery of the knowledge inherent to their specialization and their capacity to integrate it and to apply it to the solution of complex problems. Prerequisite: Have completed all specialization courses. Grade: P/NP.

3 credits

BADM 697D INTEGRATING SEMINAR IN INDUSTRIAL MANAGEMENT

Integrating Seminar in which cases are analyzed by applying the knowledge and skills acquired in the specialization. Includes analysis of operations, prognoses, costs and production, quality control, design, products and services, location of facilities, suppliers, planning, materials management, supplier chains and project management. Prerequisite: Have completed all specialization courses. Grade: P/NP.

3 credits

BADM 697E INTEGRATION SEMINAR IN MARKETING

Research on the decision making problems pertinent to the different marketing strategies. Application of marketing principles and concepts. Analysis of cases and situations of world-wide markets commercial conditions and marketing in different countries. Includes, in addition, the experimental design of surveys, experimental research, sampling, and analysis for the solution of marketing problems. Prerequisite: Have completed all specialization courses. Grade: P/NP.

3 credits

BADM 697F INTEGRATION SEMINAR FOR BUSINESS MANAGERS

Analysis of case studies related to significant managerial challenges that an executive manager faces and the practical solutions to these.

3 credits

BADM 697I SEMINAR IN BUSINESS SOCIAL RESPONSIBILITY

Analysis of the theory and practices necessary to achieve a socially responsible company or organization. Providing company managers and professionals with knowledge of the existing methodologies to analyze, practice and inform employees on the company's social responsibility.

3 credits

BADM 7000 ORGANIZATIONAL THEORY AND DESIGN

Review of the theories and practices related to the formal design of organizations. Analysis of the organizational problems of changes and development.

3 credits

BADM 7001 PROFESSIONAL SEMINAR

Review of the business administration field from a scientific perspective. Analysis of the ethical and legal aspects regarding the development of research related to the discipline. Guidance on the academic and administrative processes related to the Doctoral Program in Entrepreneurial and Managerial Development. Will be taken during the first semester of studies. Grade: P/NP.

1 credit

BADM 7010 ENTERPRISE DEVELOPMENT

Evaluation of the opportunities and risks that small and medium size organizations face in the international and global world. Review of the public policy that affects enterprise development in Puerto Rico, the Caribbean and Latin America. Emphasis on the ethical, social and cultural aspects of enterprise development for small and medium size companies. Includes the development of a plan for the establishment of a company.

3 credits

BADM 7020 RESEARCH METHODS

Evaluation of the different theories, research methods, principles and instruments that give direction to scientific research applied to business administration.

3 credits

BADM 7070 ORGANIZATIONAL BEHAVIOR

Analysis of individual and group behavior in organizations, procedures for providing and strengthening emerging behavior. Review of the organizational interaction with the environment. Research of selected topics in organizational conduct. Includes a practical study of individual and/or group behavior in the organization.

3 credits

BADM 7201 QUANTITATIVE METHODS I

Formulation and solution of managerial and economic problems using quantitative and statistical methods. Application of matrix algebra, differential calculus, linear programming and differential equations in the economic analysis.

3 credits

BADM 7202 QUANTITATIVE METHODS II

Application of statistical methods to summarize and analyze economic and commercial data in the decision-making process. Review of descriptive and inferential statistics, probability theory, variables distribution, decision making under risk and uncertain conditions, sampling, estimation and hypothesis tests. Development of intuitive reasoning by the use of statistical programs. Consideration of ethical aspects when using these methods. Prerequisite: BADM 7201.

3 credits

BADM 7220 THEORY OF MICRO ECONOMY

Theoretical and empirical analysis of consumer behavior, the firm and industry within the framework of a free commerce economy. Study of the production theory, production costs, and different market structures. Includes development of empirical tests derived from theories discussed.

3 credits

BADM 7223 THEORY OF MACRO ECONOMY

Review of the macroeconomic theory and policy in open economies and the adjustment problems according to different approaches. Comparison of the macroeconomic policy in open economies under flexible and fixed exchange rates.

3 credits

BADM 7225 MANAGERIAL ECONOMICS

Analysis and construction of econometric models of micro and macroeconomics using transversal data and historic series. Analysis of stationary and non-stationary historical series, using different econometric models and computer programs.

3 credits

BADM 797 _ SPECIAL TOPICS SEMINAR

Development of special topics in the area of business administration, according to the student's interest and under the supervision of a faculty member. Comparison of discipline studies and their application in business strategies in different scenarios.

3 credits

BADM 797A SPECIAL TOPICS SEMINAR IN ENTREPRENEURIAL AND MANAGERIAL DEVELOPMENT

Development of special topics in the area of entrepreneurial and managerial development, according to the student's interests and under the supervision of a faculty member. Comparison of discipline studies and their application in business strategies in different scenarios.

3 credits

BADM 797B SPECIAL TOPICS SEMINAR ON MANAGEMENT INFORMATION SYSTEMS

Development of special topics in the management information systems area, according to the student's interest and under the supervision of a faculty member. Comparison of discipline studies and their application in business strategies in different scenarios.

3 credits

BADM 797C SPECIAL TOPICS SEMINAR IN ACCOUNTING

Development of special topics in the accounting area, according to the student's interest and under the supervision of a faculty member. Comparison of discipline studies and their application in business strategies in different scenarios.

3 credits

BADM 797D SPECIAL TOPICS SEMINAR IN MARKETING

Development of special topics in the marketing area, according to the student's interest and under the supervision of a faculty member. Comparison of discipline studies and their application in business strategies in different scenarios.

3 credits

BADM 797E SPECIAL TOPICS SEMINAR ON FINANCE

Development of special topics in the area of finance, according to the student's interest and under the supervision of a faculty member. Comparison of discipline studies and their application in business strategies in different scenarios.

3 credits

BADM 8950 RESEARCH SEMINAR

Application of the different theories, research methods, principles and instruments in the preparation of research proposals. Critical analysis of ethical, legal and financing aspects of research projects. Development of style, forms and content of the proposal and dissertation. Prerequisite: BADM 7020.

3 credits

BADM 8991 DOCTORAL DISSERTATION I

Development of the doctoral dissertation proposal. Defense of the first three chapters before the dissertation committee. The student must submit the proposal approved by the committee to the Institutional Review Board and have its approval, as is applicable. Prerequisite: To have passed the comprehensive examination and course BADM 8950. Grade: P/NP, DP.

3 credits

BADM 8992 DOCTORAL DISSERTATION II

Writing of the dissertation. Defense of the doctoral dissertation in the specialization area of the student under the supervision of a doctoral dissertation committee. Prerequisite: BADM 8991. Grade: P/NP, DP.

3 credits

Courses in Business Education (BUED)

BUED 5000 ADMINISTRATION OF VOCATIONAL AND TECHNICAL PROGRAMS

Analysis of theories and principles governing the administration of vocational and technical programs. Emphasis on the participation of the administrator in the development and supervision of curriculum, budget preparation and personnel training. History of these programs and applicable federal and state laws.

3 credits

BUED 5010 METHODOLOGY IN THE TEACHING OF INFORMATION PROCESSING COURSES

Analysis of the instructional procedures, principles and techniques in developing skills for the selection and preparation of instructional material; measurement of achievement, and evaluation of student performance. Examination of the problems in developing high level skills in information processing.

3 credits

BUED 5015 TEACHING STRATEGIES FOR ENTERPRISE DEVELOPMENT, BUSINESS ADMINISTRATION AND MARKETING

Application of administrative theories, entrepreneurial principles, the process of formation or acquisition of companies, and the techniques and procedures in the managerial process. Application of marketing concepts and principles. Analysis and evaluation of teaching strategies applicable to the area of enterprise development, business administration and marketing at the different levels.

3 credits

BUED 5020 METHODS OF TEACHING ACCOUNTING

Analysis of the principles, techniques and resources governing the teaching of accounting. Development of instructional objectives, competencies, methods, activities and evaluation techniques. Integration of the computer in teaching accounting.

3 credits

BUED 5030 METHODOLOGY IN THE TEACHING OF SHORTHAND, TRANSCRIPTION OR ANOTHER SYSTEM OF ABBREVIATED WRITING

Study of instructional procedures, principles and techniques in developing skills, selection and preparation of teaching material, measurement of achievement and evaluation of student performance. Examination of the problems in abbreviated writing systems. Integration of the elements in the development of transcription skills.

3 credits

BUED 5035 COMPUTERS IN THE TEACHING OF BUSINESS EDUCATION

Analysis of principles, techniques and resources used in the evaluation of computers as instructional tools. Computer programs useful in teaching business education courses. Programs with educational applications, such as: calculus electronic sheet, database, word processing, advertising art, and tutorials.

3 credits

BUED 5040 CURRICULAR INNOVATIONS IN TEACHING

Analysis of the trends related to the principles, techniques and resources for teaching different disciplines in the area of business education. Evaluation of current topics and their implications for the development of pedagogical initiatives.

3 credits

BUED 5050 FUNDAMENTALS OF DISTANCE LEARNING

Study through the discussion of the principles and theories on which distance learning is based. Analysis of diverse scenarios and effective teaching techniques for the implementation of virtual offerings. Use of synchronous and asynchronous technological tools to achieve learning in virtual environments.

3 credits

BUED 5060 PREPARATION OF MATERIALS FOR DISTANCE LEARNING

Application of design techniques and preparation of educational material directed towards learning through the Web. Elaboration of instruction modules and didactic material to be distributed through a Website or a management system of on-line courses. Requires additional time in an open laboratory.

3 credits

BUED 5070 INTERFACE DESIGN FOR INSTRUCTIONAL RESOURCES THROUGH THE WEB

Interface design for instructional resources through the Web. Principles of accessibility and on the design focused on the user; standards and guides of style and typography; formats and basic handling of images, sound and video. Requires additional time in an open laboratory.

3 credits

BUED 6000 ADMINISTRATION AND SUPERVISION OF BUSINESS EDUCATION

Introduction to the basic principles of administration and supervision; tendencies, strategies, history, laws, and purposes of business education.

3 credits

BUED 6010 CURRICULUM DESIGN IN BUSINESS EDUCATION

Development, utilization and evaluation of the business education curriculum; effective curricular practices; basic guides for the development and evaluation of a business education curriculum. Identification of content, program organization, preparation of instructional objectives, guides for the selection and development of instructional materials.

3 credits

BUED 6020 BUSINESS EDUCATION ASSESSMENT, MEASUREMENT AND EVALUATION

Analysis of the evaluation and assessment process in teaching Business Education courses with emphasis on skills courses. Emphasis on the construction, administration and interpretation of tests and the existing evaluation systems and electronic manuals in the area.

3 credits

BUED 6050 STRATEGIES FOR OFFICE PERSONNEL TRAINING

Application of the educational theories of learning to the training of office systems personnel. Analysis of the instructional designs, technology, implementation and evaluation of trainings in an office environment. Analysis of laws that apply to the training of personnel. Writing of proposals for training office personnel.

3 credits

BUED 6910 INTERNSHIP IN TEACHING BUSINESS EDUCATION AT THE SECONDARY AND/OR POST SECONDARY LEVEL

Supervised teaching of business courses at the secondary or post secondary level, coordinated by seminars. Students will be exposed to experiences within the classroom, under the direct supervision of a cooperating teacher with certification in the field. The internship will be conducted in public schools or in the approved scenarios that have business education programs.

3 credits

BUED 6911 SUPERVISED PRACTICUM IN COMMERCIAL EDUCATION

Supervised practicum in the tasks of an administrator of a vocational or technical school with a Business Education Department, under a supervision of a faculty member. A minimum of eight hours of practicum per week during the semester for a minimum of 120 hours is required. Includes meetings and seminars with the practicum coordinator.

3 credits

BUED 6970 INTEGRATING SEMINAR

Integration of the knowledge and skills acquired in the courses that compose the Masters in Business Education. Emphasis on case analyses and the research of current topics related to this field of study.

3 credits

BUED 7020 HISTORICAL, SOCIAL AND ETHICAL ASPECTS IN BUSINESS EDUCATION

Review of the development of business education and its impact on society. Discussion of the elements related to the shifts of institutional paradigms; personal, organizational and social responsibilities. Analysis of the ethical principles related to the use of technology in the educational environment.

3 credits

BUED 7030 CONTEMPORARY APPROACHES AND TEACHING STRATEGIES IN BUSINESS EDUCATION

Evaluation of contemporary teaching approaches and strategies applicable to Business Education. Critical review of instructional strategies for offering courses in traditional and nontraditional learning environments.

3 credits

BUED 7050 BUSINESS EDUCATION AT THE POST-SECONDARY AND UNIVERSITY LEVELS

Evaluation of faculty and administrative practices and responsibilities in post-secondary and university level institutions in which Business Education programs are offered. Review of research related to the effectiveness of these programs.

3 credits

BUED 797_ SPECIAL TOPICS IN BUSINESS EDUCATION

Research of special topics in the area of the Business Education, in accord with student interests and under the supervision of a member of the faculty.

3 credits

BUED 8500 BUSINESS EDUCATION IN THE GLOBAL CONTEXT

Evaluation of the trends in Business Education programs at the local, state and international levels. Review of the different geographic and cultural contexts in which these programs are developed.

3 credits

BUED 8520 EVALUATION AND SELECTION OF EMERGENT TECHNOLOGY IN BUSINESS EDUCATION

Evaluation of the emergent technology for business and vocational programs. Analysis of strategies for the effective selection of equipment and software for the development of academic programs.

3 credits

BUED 8525 ASSESSMENT AND EVALUATION OF BUSINESS EDUCATION PROGRAMS

Design of assessment and evaluation strategies for the development of Business Education programs. Analysis of research related to assessment processes. Requires the preparation of an assessment project for an educational scenario.

3 credits

BUED 8615 DESIGN AND ADMINISTRATION OF BUSINESS EDUCATION PROGRAMS

Evaluation of theories, principles, techniques and practices for the design and administration of academic programs based on competencies. Study and evaluation of the norms and regulations that govern these programs in public and private scenarios.

3 credits

BUED 8620 INSTRUCTIONAL DESIGN FOR ONLINE BUSINESS COURSES

Application of theories and techniques of instructional design for online skills courses. Preparation of a instructional module using a platform for course development.

3 credits

Courses in Chemistry (CHEM)

CHEM 5013 THEORIES AND MECHANISMS IN ORGANIC CHEMISTRY

Advanced study of organic chemistry with emphasis on physical-organic chemistry, the theory of molecular orbitals, stereochemistry, reaction mechanism, synthesis and path synthesis strategies. Prerequisites: EDUC 5009.

3 credits

CHEM 6904 ADVANCED INORGANIC CHEMISTRY

Advanced study in the chemistry of transition elements with emphasis on coordination complexes, and on organometallic and inorganic compounds. Discussions will include molecular symmetry, electronic mechanisms of spectrums, theories of acids and bases, kinetic reactions and oxidation and reduction reactions. Study of group symmetry and theorems of the group theory with application to chemical structure, the type of connection and spectroscopy. Basic knowledge of linear algebra is needed. This course aims to prepare students to carry out research tasks in organic chemistry. As a complement to the educational component, students will develop a curricular segment where they will demonstrate mastery of the educational theory and a clear understanding of the fundamental chemical principles. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Chemistry.

3 credits

CHEM 6905 INSTRUMENTAL METHODS FOR CHEMICAL ANALYSIS

Advanced and detailed consideration of the theory and practice of different methods of chemical analysis that use instrumentation in solving problems of chemical composition. The principles of different spectroscopic, electrochemical and chromatographic methods and their applications will be discussed. Applications of chemical analysis in areas such as molecular biology, science of materials, environmental science, earth science, pharmaceutical chemistry, and nutrition and public health will be discussed. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Chemistry.

3 credits

CHEM 6906 ORGANIC REACTION MECHANISMS

Detailed and intense revision of organic chemical reactions with emphasis on modern synthetic methods and their applications in the synthesis of complex organic compounds. Topics on stereochemistry, molecular structure, reaction mechanisms of organic molecules, and select reactions will be studied. Also considered will be reactions of enolates, reactions of condensation of carbonyl groups, interconversions of functional groups, reactions of electrophilic addition, reductions, organometallic reagents, arranged reactions, oxidations, synthesis strategies including retro-synthesis analysis in the context of multiple steps syntheses taken from recent specialized literature. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Chemistry.

3 credits

Courses in Computer Science (COMP)

COMP 5100 DESIGN OF ALGORITHMS

Analysis and design of algorithms and advanced data structures. Emphasis on the mathematical model of problem complexity. Development of methodologies, problems and the correct data structures for their solution. Requires an open lab.

3 credits

COMP 5110 AUTOMATA THEORY AND FORMAL LANGUAGES

Design of different types of automata. Visualization of the different concepts involved in automata theory. Use of the approach called learning from examples. Discussion of some aspects related to robots and formal languages. Study of the relations between formal languages and automata, as well as some of the forms of language specifications and their computer properties. Requires an open lab.

3 credits

COMP 5120 ARTIFICIAL INTELLIGENCE

Application of knowledge representation and use of algorithms for the solution of problems related to artificial intelligence. Analysis of the problems and solution techniques of artificial intelligence. Simulation of the processes of knowledge representation, search, control and learning in automatic systems. Introduction to the use of a language specialized for artificial intelligence. Requires 30 hours of lecture and 15 hours of virtual lab.

3 credits

COMP 5325 PROGRAMMING LANGUAGES

Discussion of the central concepts of programming languages and how they are manipulated into languages that follow certain paradigms. Analysis of languages in light of their semantic models. Application of structural, denotational, and axiomatic operational semantics. Detailed study of the nucleus of the Standard ML language. Includes the development of programs in that language and in some other current language. Requires 30 hours of lecture and 15 hours of virtual lab. Prerequisite: COMP 5110.

3 credits

COMP 5510 SOFTWARE DEVELOPMENT AND DESIGN

Analysis of the methodology that includes the development and design of systems to facilitate decision making. Emphasis on the development of prototypes to guide design activity. Discussion of the set of methods, techniques and tools of a software product. Prerequisite: COMP 5110.

3 credits

COMP 5525 SEMINAR I

Discussion and analysis of practices, current problems and trends in computation and related disciplines. This is a connect activity among professors, students and representatives of the industrial sector that provides students and the professor the elements to discern forms of application of the studied theory to the national reality. Prerequisite: COMP 5120.

3 credits

COMP 6010 OPERATIONS RESEARCH

Comparison of third and fourth generation languages. Learning and practice in a high-level language of visual programming. Development of a research plan under the supervision of a professor. Includes the operations, design and construction of logic models of programming for their implementation. Prerequisite: COMP 5525.

3 credits

COMP 6200 MULTIMEDIA AND HYPERMEDIA

Analysis of the fundamental concepts of multimedia and hypermedia, and their theoretical and practical aspects. Emphasis on the development of applications using Toolbook. Requires 30 hours of lecture and 15 hours of closed lab. Prerequisite: COMP 5525.

3 credits

COMP 6250 COMMUNICATION PROTOCOLS

Use of tools necessary for the design of data networks and use of the different communication protocols utilized by users. Requires an open lab. Prerequisite: COMP 5525.

3 credits

COMP 6300 NETWORKS I

Analysis of theoretical and methodological aspects typical of data transfer. Practice in installation, configuration and operation of a system local network administrator. Evaluation of the circumstances in which the local networks are viable solutions in data processing. Requires 30 hours of lecture and 15 hours of virtual lab. Prerequisite: COMP 5510.

3 credits

COMP 6315 OPERATING SYSTEMS

Analysis of the different operating systems and current trends in research and development. Evaluation and administration of the functions of an operating system. Requires an open lab. Prerequisite: COMP 5510.

3 credits

COMP 6400 NETWORKS II

Analysis of the problems of computer networks design and their implementation. Use of networks and data management. Implementation of networks. Emphasis on technologies similar to Internet. Requires 30 hours of lecture and 15 hours of virtual lab. Prerequisite: COMP 6300.

3 credits

COMP 6500 DATABASE WORKSHOP

Design, development and implementation of a relational data bank. Includes complex data models and advanced design tools. Requires 30 hours of lecture and 15 hours of virtual lab. Prerequisite: COMP 5325.

3 credits

COMP 6525 PROGRAMMING WORKSHOP

Practice in the skills and abilities acquired from the programming languages and the development and application of programs. Includes models of operations research and support systems in decision making. Requires 30 hours of lecture and 15 hours of virtual lab. Prerequisite: COMP 5325.

3 credits

COMP 6615 SEMINAR II: COMPUTATION AND SOCIETY

Study of the relation and the impact that computer technology has had and its products in diverse human activities and disciplines. Emphasis on the analysis of aspects related to ethics, the gender relations and current legislation, among others. Requires an open lab. Prerequisite: COMP 5525.

3 credits

COMP 6650 SYSTEMS ADMINISTRATION

Analysis of the function and processes of administration. Includes the technological resources related to Information systems. Development of a strategic plan that allows evolution, the administration and the evaluation of the Technology of Information in organizations. Requires an open lab. Prerequisite: COMP 6525.

3 credits

COMP 6970 INTEGRATED SEMINAR

Analysis and discussion of aspects related to information systems. Development of a research project under the supervision of a professor using the appropriate ethical criteria of the profession. Students will register in this course while they are working on the project. Grade P/NP. Prerequisite: Approval of the department director.

4 credits

Courses in Computer Science in Networks and Security (CSNS)**CSNS 5100 NETWORK ANALYSIS AND DESIGN**

Analysis and design of computer networks. Use of different design methodologies of scalable networks. Emphasis on policies and costs when designing a computer network. Evaluation of the different types of network traffic and their importance when designing.

3 credits

CSNS 5110 PRINCIPLES OF RESEARCH

Application of the scientific method in problem solving. Emphasis on the use of the methodology and terminology of quantitative and qualitative research. Includes the preparation of a research proposal.

3 credits

CSNS 5121 ROUTING TECHNOLOGIES I

Application of the internal routing methods used in the connections between wide area networks. Emphasis on protocols, routing algorithms, and the identification methodology of three layer packages and their interaction with the other layers of the OSI model.

3 credits

CSNS 5131 SWITCHBOARD TECHNOLOGIES I

Review of switchboard protocols and standards. Includes the environmental configuration of local area networks and of virtual local networks. Analysis of plot structures. Emphasis on the transmission of point to point plots in a local area network and the administration of switchboards at an operative system level.

3 credits

CSNS 5210 INTERNET PROTOCOL VERSION 6

Analysis of the architecture, operation, and development of the IP version 6 Protocol. Research on the uses of the IP version 6 protocol in traditional and non traditional network environments. Emphasis on the relation of the IP version 6 protocol with the network services in a client-server environment.

3 credits

CSNS 5222 ROUTING TECHNOLOGIES II

Application of exterior routing protocols and planning of scalable networks. Analysis of the routing protocol selection process between independent systems. Emphasis on the correct use of directions concerning local area networks and wide area networks. Prerequisite: CSNS 5121.

3 credits

CSNS 5232 SWITCHBOARD TECHNOLOGIES II

Application of protocols and standards in multi layer functional switchboards. Emphasis on the configuration of the environment of the local area network and of the local virtual private area network in the diagnosis of operational failures of switchboards, and on the application of audit and security techniques used in the management of switchboard services. Prerequisite: CSNS 5131.

3 credits

CSNS 6100 FIREWALLS

Analysis of fundamental elements that make up a Firewall. Application of different design methodologies used in security network systems. Emphasis on the prevention plan for vulnerable situations to a security network system.

3 credits

CSNS 6110 SECURITY AND FORENSIC COMPUTING

Critical review of the vulnerability of information systems and the hacker profile. Analysis and control of risks. Includes the use of tools of open and commercial code to carry out simulated attacks and to protect information systems. Emphasis on the cryptography on forensic information, and on the characteristics of the specialist.

3 credits

CSNS 6120 REMOTE ACCESS NETWORK

Evaluation of network connection methods using remote access. Emphasis on dedicated, alternate, redundant and broadband methods of connection. Prerequisites: CSNS 5100, 5121.

3 credits

CSNS 6210 DESIGN, IMPLEMENTATION AND ASSESSMENT OF NETWORK SECURITY

Analysis of the elements of design and implementation of network security techniques and their tools. Assessment of security methodologies in networks. Design of safe remote access networks as well as small, medium and wireless networks. Evaluation of the failures in layers 2, 3 4, and 7 of the Open Interconnection System (OSI)

model. Use of assessment techniques to investigate the new trends in security, their application and design analysis. Prerequisites CSNS 5222, 6110.

3 credits

CSNS 6220 HACKER DETECTION SYSTEMS

Evaluation of the operation of hacker detection systems in local and wide area network systems. Emphasis on warning configuration through the use of traffic review policy techniques in networks. Prerequisites: CSNS 6100, 6110.

3 credits

CSNS 6310 SOLUTIONS ON NETWORK MALFUNCTION TECHNIQUES

Evaluation of malfunctions in local and wide area networks. Emphasis on the techniques for identification of problems in the network by means of the use of OSI as a reference model. Analysis of common problems that can happen in a local or wide area network and the possible solutions to these problems.

3 credits

CSNS 6320 SATELLITE COMMUNICATIONS SYSTEMS

Review of the systems of satellite communications and their operation in data transmission. Emphasis on the Earth's orbits and the disruptions that affect the operation of a satellite system. Analysis of the components of a satellite system and their relation to computer networks systems.

3 credits

CSNS 6330 RESEARCH PROJECT

Identification of a research topic in the field of networks, telecommunications, or in network or information system security. Analysis of literature, selection of the methodology and the development of a research project. Application of research principles and methods. Creation and development of a research project to be evaluated and approved by the advisory professor of the project. The student will register in this course as many times as necessary until the research project is completed. Grade: P/NP. Prerequisites: CSNS 5110, 5221.

3 credits

Courses in Criminal Justice (CJUS)

CJUS 5010 LAW AND SOCIETY

Analysis of the interaction of the legal system of Puerto Rico, the individuals and society. Includes the laws, procedural aspects and the deliberate or non-deliberate consequences of the creation and application of the law. Integration of the criminological theories that contribute to the understanding of the dialectic relation between laws, individuals, and society.

3 credits

CJUS 5023 ELEMENTS OF CRIMINAL LAW

Discussion of the principles, theories and problems common to criminal law and of its development through history. Includes the doctrines of criminal responsibility and the legal capacity to commit crimes. Review of the elements of the crimes considering the infractions presented by the several fields of the penal legislation of Puerto Rico. Emphasis on the analysis and interpretation of legal cases.

3 credits

CJUS 5055 CRIMINOLOGY

Historical analysis of the scientific and interactive development of criminology and the creation of the formal and informal norms to take care of deviated and criminal behavior. Emphasis on the nature of the crime, the trends and the possible explanations of criminality from a biological, sociological, psychological and economic perspective. Review of social reactions to the social problem of criminality.

3 credits

CJUS 5060 METHODOLOGY OF SOCIAL-SCIENTIFIC RESEARCH

Analysis of the methodology of social-scientific research and its philosophical, theoretical and ethical aspects in the area of criminal justice. Application of the methodology studied in the design of the research proposal.

3 credits

CJUS 5070 SOCIAL-SCIENTIFIC RESEARCH APPLIED TO CRIMINAL JUSTICE

Application of the qualitative or quantitative designs of social-scientific research to a problem in the criminal justice area. Includes the integration of emerging technology in the field of research. Prerequisite: CJUS 5060.

3 credits

CJUS 5080 PUBLIC POLICY AND THE STATE AND FEDERAL JUSTICE SYSTEMS

Analysis of the governmental structuring at the federal and state level. Emphasis on the criminological foundations of federal and state public policy in Puerto Rico.

3 credits

CJUS 5237 JUVENILE JUSTICE

Analysis of the historical development of the social and legal aspects and of juvenile delinquency. Review of the theories, factors and conditions associated with this social problem, preventive strategies and modalities of treatment for minors who commit infractions. Emphasis on the procedural aspects.

3 credits

CJUS 5299 LAW AND CORRECTION

Analysis of the recent legal developments related to the correctional, institutional and community alternatives. Includes the rights that people under correctional supervision have.

3 credits

CJUS 5310 CRIMINAL PROCEDURE AND EVIDENCE LAW

Discussion of the principles of procedural and evidentiary law from the criminal or forensic investigator's perspective. Analysis of applicable jurisprudence.

3 credits

CJUS 5320 CONSTITUTIONAL AND ADMINISTRATIVE LAW

Discussion of the application of the constitutional rules established by the Constitution of the United States and the Constitution of the Commonwealth of Puerto Rico and their relation with the administrative procedure in governmental agencies. Includes the analysis of the laws applicable to citizens in the administrative procedure, as well as the applicable review of applicable jurisprudence and doctrines.

3 credits

CJUS 5340 CRIMINALISTICS AND THE LAW

Technical and legal aspects of scientific techniques and instruments in the trial of criminal cases. Emphasis on the evidential value and assistance of applicable scientific aids to prosecutor and defender. Among others, the following will be considered: firearm identification, examination of questioned documents, physical and chemical evidence, dactiloscopical identification and instrumental detection of fraud.

3 credits

CJUS 5410 WHITE COLLAR CRIME

Analysis of white collar crime: its origin, development, philosophy and its effects on the economy of Puerto Rico and the United States. Emphasis on the study of the topic from a sociological and practical theoretical perspective. Includes the discussion of state and federal laws to combat white collar crime and the functioning of investigative organisms.

3 credits

CJUS 5420 FORENSIC SCIENCE

Analysis of the scope of forensic sciences, criminology, and the evaluation of physical and biological evidence in violent crimes. Discussion of the most important scientific-forensic disciplines in criminal investigation. Includes the probative value of evidence and its impact on the state and federal governmental institutions of the criminal justice system.

3 credits

CJUS 5430 INTERVIEW AND INTERROGATION TECHNIQUES

Discussion of the importance of interrogation in all stages of the Criminal Justice System. Emphasis on the basic methods, skills, techniques and principles in penal litigation. Includes the processes used in the different stages of the procedure according to the Approbatory Law of the interrogation of witnesses in the penal process.

3 credits

CJUS 5510 ALTERNATE METHODS OF ADJUDICATION

Discussion of the theoretical and practical aspects of alternate methods of adjudication. Identification of the necessary regulations, procedures and skills applicable to each one, with emphasis on the mediation of conflicts.

3 credits

CJUS 5520 MANAGERIAL ASPECTS IN PUBLIC AND PRIVATE SECURITY

Analysis of the managerial aspects in the administration of private security, such as the organization and operation of security services in the private industry. Emphasis on effective advising in security, including budget preparation, effective planning, recruitment and training, reports, proposals and prevention. Includes the discussion and analysis of the ethical responsibility aspects in the function of security, as well as the integration of security with public security, benefits and limitations. Review of the jurisprudence and applicable laws.

3 credits

CJUS 5613 ADDICTION, CRIMINALITY AND REHABILITATION

Analysis of the factors and conditions that induce people to depend on psychoactive or illegal substances and criminal behavior. Evaluation of the effectiveness of the prevention, treatment and rehabilitation strategies of persons with deviated behavior.

3 credits

CJUS 5634 PSYCHOPATHOLOGY

Systematic study of those forms of behavior traditionally treated as pathological by the psychiatric model of human behavior and contrast of the medical and psychosocial viewpoints. Emphasis on the juridical viewpoint of deviant behavior, especially as it affects criminal responsibility and the criminal justice process.

3 credits

CJUS 5900 SPECIAL ASSIGNMENT

Participation in a supervised practice experience in an agency of the State or Federal Criminal Justice System or the completion of an investigation project in areas of criminal justice. The nature of the practice or the investigation will be determined by the Faculty of the Program that will supervise both activities.

3 credits

CJUS 5970 SPECIAL TOPICS

Review of selected areas of contemporary importance in aspects related to criminal justice in regard to new social, legislative and judicial considerations in preventive, investigative, procedural, adjudicative, dispositive, and correctional processes for adults and minors who come in conflict with the law.

3 credits

CJUS 6970 INTEGRATION SEMINAR

Integrating seminar of an interdisciplinary character with general and specific material proportional to the distribution of these parts in the totality of credits required for the degree. The course will be developed by means of a methodology of readings, lectures, group discussions, case studies and others to address the relevant topics.

3 credits

Courses in Economics (ECON)

ECON 5300 STATISTICAL AND ECONOMIC ANALYSIS OF LABOR MARKETS

Analysis of the factors affecting the development and trends of labor markets in a capitalist economy. These include work supply and demand, economic analysis of compensation, income distribution and public policies. Application of the concepts and methodology of basic statistic and sampling.

3 credits

ECON 6320 ADVANCED LABOR ECONOMICS

Advanced study of economic problems in the labor market, population and labor force; the economic impact of bargaining, automation and change; and the effects of wages and wage bargaining on employment, the business cycle and industrial growth.

3 credits

ECON 7200 LABOR ECONOMY

Critical examination of the production functions of business and the contractual relationship of employment in corporate and non-corporate markets. Analysis of the collective action efforts in the work environment: workers unions and employment contracts.

3 credits

ECON 8000 ECONOMY OF THE LABOR MARKET STRUCTURE

Critical analysis of the economic theory and empirical evidence related to work distribution, salary determination, employment and unemployment.

3 credits

ECON 8150 REGIONAL AND GLOBAL ECONOMIC DEVELOPMENT

Review of economic theories, models and policies for economic development. Analysis of the aspects related to economic development planning and models most frequently used. Development of strategic factors for regional and global growth. Comparison of interregional disparities between developed and developing nations, as well as the policies designed to alleviate the problems arising from this disparity.

3 credits

Courses in Education (EDUC)

EDUC 5000 GEOGRAPHY FOR TEACHERS

Individual/environmental systems from the perspective of processes and spatial relationships. Physical systems and their interaction in terms of dimensions, scales, associations and patterns. Includes topics of physical geography taken from geomorphology, hydrology, climatology and education. Emphasis on the teaching of these topics.

3 credits

EDUC 5003 ECOLOGY FOR TEACHERS

Ecological factors, processes and mechanisms facilitating the movement of organisms and limiting colonization. Attention is given to the biology of islands and the natural phenomena related to the environment. Emphasis on the techniques and strategies for teaching these topics. Includes practical experience.

3 credits

EDUC 5009 CHEMISTRY FOR TEACHERS

Specialized topics of modern chemistry including structures, mechanisms and chemical reactions as well as their historical development and applications. Emphasis on the techniques and strategies of teaching chemistry. Prerequisite: CHEM 3132.

3 credits

EDUC 5011 PHYSICS I FOR TEACHERS

Advanced study of the basic topics of classical physics: mechanics, thermodynamics and electromagnetism. Considers especially the basic concepts and principles of physics that give unity to physics and the natural sciences. Emphasis on the techniques and strategies in teaching physics. Includes practical experience.

3 credits

EDUC 5012 PHYSICS II FOR TEACHERS

Advanced study of the theory of waves and classical optics and introduction to the modern theories of physics as the special theory of relativity, quantum mechanics and topics of particle physics. Emphasis on the techniques and strategies of teaching physics. Includes practical experience.

3 credits

EDUC 5013 SOCIOLOGICAL FOUNDATIONS OF EDUCATION

Systematic study of the interaction between the society and education, the school and the community as institutions which generate social change.

3 credits

EDUC 5015 BIOLOGY FOR TEACHERS

Basic areas of modern biology, especially cellular biology, genetics, evolution, ecology and behavior. Emphasis on the techniques and strategies in teaching biology. Includes practical experience.

3 credits

EDUC 5024 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION

Psychological principles of development, personality, learning and assessment and their application to the teaching-learning process within the socio-cultural context.

3 credits

EDUC 5035 PHILOSOPHICAL VALUES AND PERSPECTIVES IN CONTEMPORARY EDUCATION

Analysis of the principal philosophical schools and examination of the axiological premises justifying contemporary educational purposes. Study of modern focuses on the teaching of values. Review of the Puerto Rican situation: Past, present and future perspectives.

3 credits

EDUC 5046 THE INDIVIDUAL, SOCIETY AND EDUCATION

Theoretical principles explaining and/or describing the influence of the physical, psychological and sociocultural environment on human behavior within the educational context.

3 credits

EDUC 5045 CHILDHOOD, THE FAMILY AND THE SCHOOL

Analysis of the theoretical principles of physical, cognitive, social and cultural development of children at the elementary level. Implications in curriculum, management and organization of the classroom. Study of the interaction of the community, family and the school and its impact in the development of children.

3 credits

EDUC 5047 PSYCHO-SOCIAL FOUNDATIONS OF EDUCATION

Discussion and analysis of the psycho-social applications and implications of the principle theories of learning. Discussion of the contributions, applications and implications of neurosciences to the teaching and learning processes.

3 credits

EDUC 5057 COMPARATIVE EDUCATION

Comparative study of education. Designed to examine significant differences and similarities in educational policies and practices in selected societies.

3 credits

EDUC 5068 WESTERN WORLD EDUCATION

Historical development of educational ideas, institutions and practices in the Western world. Begins with the invention of writing and follows the development of the Judean-Greek-Roman civilization up to education in Puerto Rico.

3 credits

EDUC 5100 THE COMPUTER IN THE TEACHING OF SCIENCE AND MATHEMATICS

Computers and useful languages for teaching science and mathematics. Students will examine existing software to conduct experiments, simulations and demonstrations of topics discussed in class. Criteria for assessing the effectiveness of educational software are examined. Requires additional time in the computer laboratory.

3 credits

EDUC 5105 USE OF TECHNOLOGY IN TEACHING OF MATHEMATICS

Integration of calculators and computers in the teaching of mathematics. Development of learning activities that require their use. Emphasis on the use and evaluation of educational software in mathematics as a means of support in the teaching-learning process.

3 credits

EDUC 5111 EDUCATIONAL RESEARCH I

Application of the scientific method to solve educational problems. Use of the methodology and terminology of quantitative and qualitative research. Includes the preparation of a research proposal.

3 credits

EDUC 5112 EDUCATIONAL RESEARCH II

Practical study of an educational problem requiring the development of a research project under the supervision of a professor. Prerequisite: EDUC 5111.

3 credits

EDUC 5114 SOCIAL STUDIES AND TEACHING THEM AT THE ELEMENTARY LEVEL

Study of the curricular content of Social Studies and the development of methods, strategies and activities for teaching Social Studies at the elementary level. Emphasis on the analysis of new trends in the discipline through a descriptive analytical approach in light of classic and modern research.

3 credits

EDUC 5115 SCIENCES AND TEACHING THEM AT THE ELEMENTARY LEVEL

Study of the curricular content of science, the environment and health at the elementary level. Development of methods, strategies and activities for teaching. Thirty hours of lecture and 15 hours of lab.

3 credits

EDUC 5116 SPANISH AND TEACHING IT AT THE ELEMENTARY LEVEL

Study of Spanish language arts at the elementary level and the development of methods, strategies and activities for teaching Spanish. Emphasis on the new models and their application to pedagogical practices at the elementary level.

3 credits

EDUC 5117 MATHEMATICS AND TEACHING IT AT THE ELEMENTARY LEVEL

Study of the curricular content of mathematics and the development of methods, strategies and activities for teaching mathematics at the elementary level. Analysis of new models in view of the most recent research in the discipline.

3 credits

EDUC 5118 ENGLISH AS A SECOND LANGUAGE AND TEACHING IT AT THE ELEMENTARY LEVEL

Study of the theories and new models in the curricular content of teaching English as a second language and its application to pedagogical practices at the elementary level. Emphasis on the development of methods, strategies and activities.

3 credits

EDUC 5119 TOPICS IN HEALTH AND TEACHING THEM AT THE ELEMENTARY LEVEL

Study of topics in health and the development of methods, strategies and activities for teaching them. Emphasis on the prevention of things affecting health from the psychological, physiological the social perspective at the elementary level.

3 credits

EDUC 5120 PROBABILITY AND STATISTIC AND TEACHING THEM AT THE ELEMENTARY LEVEL

Study of topics of probability and statistics and their application in real scenarios. Theory and simple random sampling are included. Emphasis on the development of methods, strategies and activities for teaching.

3 credits

EDUC 5121 ENVIRONMENTAL SCIENCES AND THEIR EDUCATION IN THE ELEMENTARY LEVEL

Study of environmental sciences with emphasis on the conservation of natural resources. Design and evaluation of methods, strategies and activities that demonstrate the systemic, cyclical and holistic nature of the ecosystems and the importance of these principles in conservation.

3 credits

EDUC 5122 CRITICAL ANALYSIS OF CHILDREN'S LITERATURE AT THE ELEMENTARY LEVEL

Critical analysis of children's Literature from its origins, evolution, definition, characteristics and typology, with the purpose of using this as a pedagogical resource in the classroom. Study of recent research: its implications and applications. Emphasis on the development of methods, strategies and activities for teaching.

3 credits

EDUC 5123 CREATIVITY AND CORPORAL EXPRESSION

Analysis of recent research and models of creative thinking: their implications and applications to diverse scenarios. Theoretical and practical study of the possibilities of corporal expression. Emphasis on the development of methods, strategies and activities for teaching.

3 credits

5124 EDUC APPRECIATION AND INTEGRATION OF ART AT THE ELEMENTARY LEVEL

Study of design, history of art, the vocabulary and the strategies for its integration in the curriculum of the elementary school. Applied approach to the different facets of art appreciation in the elementary school. Emphasis on the development of methods, strategies and activities for teaching.

3 credits

EDUC 5133 STATISTICS

Statistical methods applied to educational research. Application of descriptive and inferential statistics to data interpretation. Use of the computer in statistical analysis. Requires additional time in an open laboratory.

3 credits

EDUC 5142 MEDICAL AND PSYCHOLOGICAL ASPECTS FOR THE REHABILITATION AND SPECIAL EDUCATION PROFESSIONAL

Medical and psychiatric principles in rehabilitation. Analysis of population trends, basic principles of medical and clinical sciences, common mental and physical disabling conditions, recent research, legal aspects, medical service programs in government and private vocational rehabilitation agencies.

3 credits

EDUC 5144 INTRODUCTION TO REHABILITATION

Basic concepts in rehabilitation as a social movement. Historical, philosophical and legislative background in vocational rehabilitation with emphasis on the latest legislative changes at the federal and state levels and their repercussions in public and private service programs for handicapped persons. Analysis of the participation of community organizations in the development of rehabilitation services.

3 credits

EDUC 5145 VOCATIONAL EVALUATION OF PERSONS WITH SPECIAL NEEDS

Analysis of the Theory of Work Adjustment and intervention in vocational evaluation. Service models, types of cases and the role of the vocational evaluator.

3 credits

EDUC 5146 TESTS AND METHODS IN VOCATIONAL EVALUATION I

Critical examination of the psychometric tests applicable to vocational evaluation and work samples. Development of an Individualized Vocational Evaluation Plan and the procedures for vocational clinical services. Prerequisite: EDUC 5145.

3 credits

EDUC 5147 TESTS AND METHODS IN VOCATIONAL EVALUATION II

Use of occupational factors derived from the Occupation Titles Dictionary to analyze the vocational profile of cases. Application of interviewing techniques and observation and report format. Discussion of cases with professionals related with the field. Prerequisite: EDUC 5146.

3 credits

EDUC 5148 PRACTICUM IN VOCATIONAL EVALUATION

Laboratory in the use of selected psychometric tests; work samples, analysis of occupational, medical and educational interviewing techniques and clinical observation. A minimum of 80 hours of laboratory is required. Prerequisite: EDUC 5147.

3 credits

EDUC 5200 DEVELOPMENT AND FUTURE OF HIGHER EDUCATION

Analysis of the purpose and historical development of higher education institutions in Europe, United States, Puerto Rico and other Latin American countries to the present and their future trends. Review of their moral, philosophical, social and psychological foundations.

3 credits

EDUC 5210 TEACHING MANAGEMENT IN HIGHER EDUCATION

Identification, description and analysis of the pedagogic and research capabilities that the higher education teacher must have. Analysis of faculty hiring and retention procedures. Review of models, approaches and techniques for faculty development, retraining, and evaluation.

3 credits

EDUC 5220 HIGHER EDUCATION MANAGEMENT

Management theories, processes, models and their applications to higher education scenarios. Includes the study of conductive processes and supervision as a process for assistance and improvement. Emphasis on systems theories, educational leadership, decision making processes for problem solution and program planning and development.

3 credits

EDUC 5230 INSTITUTIONAL PLANNING, BUDGET AND ASSESSMENT

Analysis of theories, models and planning and evaluation of the quality of organizational results. Includes financing sources and the budget as a planning tool.

3 credits

EDUC 5240 PHILOSOPHY AND FUNDAMENTALS OF OCCUPATIONAL EDUCATION

Historical path and principal philosophies that govern occupational education. Analysis of factors that influence its development, federal and state legislation program areas, population served and the level of offerings.

3 credits

EDUC 5370 PRINCIPLES OF COUNSELING

Introduction to the field of counseling as a profession. Emphasis on the analysis of the compatibility between the characteristics, roles and functions of a professional counselor and of the student in training. Introduction and practice of the attention skills.

3 credits

EDUC 5610 SOCIAL CONDITIONS AFFECTING THE INDIGENT

Description and analysis of value development and of behavior in urban society and its impact on non-urban societies. Emphasis on social conditions affecting the health, well being and nutrition of the indigent.

3 credits

EDUC 5700 SCHOOL AND COMMUNITY

Review of the place, function and authority of the school as a social institution and its relationship to non-school agencies.

3 credits

EDUC 5730 PROMULGATION AND ADOPTION OF EDUCATIONAL INNOVATIONS

Evaluation of educational innovations and their potential for promulgation and adoption in schools.

3 credits

EDUC 5740 EDUCATION OF EXCEPTIONAL STUDENTS

Analysis of the nature of the condition and characteristics of exceptional students and an introduction to the teaching methods and strategies for these students. Case studies are required.

3 credits

EDUC 5750 EDUCATIONAL MEDIA

Educational materials laboratory. A practical course in the use and production of audiovisual materials and other media. Consideration of the specific value and applicability of these media in various subject matter areas.

3 credits

EDUC 5760 ALTERNATIVES FOR THE FUTURE AND EDUCATIONAL POLICY

Philosophy of futurism and its application in the formulation of educational policy. Interdisciplinary approach to educational planning and program development from the futuristic point of view.

3 credits

EDUC 597_ SPECIAL TOPICS IN ELEMENTARY EDUCATION

1-6 credits

EDUC 6000 HUMAN RESOURCES MANAGEMENT AND LABOR RELATIONS IN EDUCATIONAL SCENES

Analysis of the laws and processes that affect effective human resources administration in the educational scenario. Includes programs of professional development, motivation and satisfaction in the workplace.

3 credits

EDUC 6001 FISCAL MANAGEMENT

Analysis of the fundamental elements of scholastic budgeting and finances. Includes the preparation and control of budget in educational institutions.

3 credits

EDUC 6004 INFORMATION SYSTEMS IN EDUCATIONAL MANAGEMENT

Application of existing technology and cybernetic information to administrative processes; logical functional design for processing, use of networks and their application and storage of information. Analysis and use of different useful computerized programs in educational management.

3 credits

EDUC 6013 ORGANIZATIONAL BEHAVIOR IN EDUCATIONAL INSTITUTIONS

Analysis of individual, interpersonal and group behavior in the context of educational organizations, by using different models and theories. Includes the development and evolution of organizational theory. Application of the theories to the sociocultural setting in which educational management and instructional supervision occur.

3 credits

EDUC 6024 EDUCATIONAL MEASUREMENTS AND EVALUATION

Techniques of measurement and evaluation of learning. Planning for evaluation. Preparation, administration and correction of tests and other evaluation instruments. Statistical analysis of test results and their interpretation and application to the learning process. Operation of the microcomputer in data analysis and in other functions which facilitate evaluation. Requires additional time in an open laboratory.

3 credits

EDUC 6035 EDUCATIONAL PLANNING

Application of the principles of educational planning. Study of practical situations in educational planning. Requires the design of an educational project.

3 credits

EDUC 6043 THE STUDENT WITH MENTAL RETARDATION

Analysis of the behavior of students with mental retardation. Aspects of etiology. Contemporary problems in the services and opportunities for social, emotional, cognitive, vocational or occupational development as well as the development of attitudes and values. Emphasis in the quality of life of these people. Research analysis.

3 credits

EDUC 6044 STUDENTS WITH SPECIFIC LEARNING PROBLEMS

Analysis of contemporary theories and concepts, issues and future trends in teaching students with specific learning problems. Research analysis.

3 credits

EDUC 6045 STUDENTS WITH SUPERIOR INTELLIGENCE AND TALENTS

Analysis of contemporary theories and concepts on students with superior intelligence and talent. Special service models. Analysis of research related to the superior abilities of this population and current educational practices.

3 credits

EDUC 6046 CURRICULUM DEVELOPMENT

Principles of the curriculum and their application to curriculum development. Includes different models of curriculum design, the study of the development of curriculum as a system; needs, content and strategies for teaching, implementation and evaluation of curriculum and the design of a curricular segment.

3 credits

EDUC 6047 NATURE AND NEEDS OF HANDICAPPED INFANTS AND PRESCHOOL CHILDREN

Nature and needs of handicapped infants and preschool children. Discussion of the normal developmental process and deviations from it. Includes the study of the basic areas of physical, cognitive, social, emotional, language and self-help development.

3 credits

EDUC 6048 ASSESSMENT AND PROGRAMMING FOR HANDICAPPED INFANTS AND PRESCHOOL CHILDREN

Methods and techniques for evaluating and programming services and individualized instruction for infants and preschool children. The importance of the parents' participation in service and educational programs. Emphasis on the provision of guidance and counseling for parents and their participation in the preparation of individualized service programs for the family and of individualized teaching programs.

3 credits

EDUC 6049 THE STUDENT WITH SEVERE BEHAVIORAL DISORDERS

Different models explaining the origin of behavioral disorders. Ways in which the teacher can intervene according to the different models. Practical experience provided. Emphasis on the quality of life of these persons.

3 credits

EDUC 6050 CURRENT ISSUES IN INTERDISCIPLINARY SPECIAL EDUCATION

Comparison of regular and special educational programs. Identification of variables promoting the union of both fields of study. Study of federal and state laws related to education from early childhood to high school, program models, community resources, and program development. Knowledge of appropriate teaching practices and the factors that promote education in natural and inclusive environments.

3 credits

EDUC 6053 INTERVENTION WITH FAMILIES IN INCLUSIVE ENVIRONMENTS

Analysis of dynamic in family systems. Study of factors that affect family structure, impact of the presence of children with disabilities in the family, techniques for identifying the strengths and needs of the family and strategies for facilitating communication. Students will assist families in obtaining information and available services in the community.

3 credits

EDUC 6054 ASSESSMENT IN INTERDISCIPLINARY SPECIAL EDUCATION

Study of methods and techniques for assessing children with or without disabilities from infant to high school students in natural environments. Analysis of assessment instruments for infants, pre-school and high school students with or without disabilities. Students will develop evaluation instruments and participate in the process of transdisciplinary assessment.

3 credits

EDUC 6055 SEMINAR IN INTERDISCIPLINARY SPECIAL EDUCATION

Development of the Individualized Service Plan and the Individualized Educational Plan. Study of teamwork models with emphasis on the transdisciplinary model. Preparation of students of different disciplines to occupy direct intervention roles and provide a collaborative system for offering service to infants and students with special needs and to their families in inclusive environments.

3 credits

EDUC 6056 CURRICULUM EVALUATION

Analysis of the models, phases and principles of the curricular evaluation. Analysis of the functions and responsibilities of the curriculum specialist and other school personnel in curriculum evaluation. Practice in the design and construction of instruments for the curriculum evaluation at the different school levels. Evaluation of current educational programs and projects in our educational system.

3 credits

EDUC 6057 TEACHING MODELS AND STRATEGIES

Analysis and assessment of teaching models and the selection of instructional strategies applicable to different disciplines and levels.

3 credits

EDUC 6058 LEGAL FOUNDATIONS OF EDUCATION

Analysis and evaluation of the laws and regulations that govern education in Puerto Rico. Study of the local and federal courts decisions and their implications in education.

3 credits

EDUC 6059 DESIGN AND DEVELOPMENT OF INTERDISCIPLINARY SPECIAL CURRICULA

Analysis of curricular principles from the pre-school level to high school and their application in Puerto Rico. Emphasis on the development of appropriate curriculum models that may be used for teaching preschool children, and elementary and high school students in inclusive programs and natural environments.

3 credits

EDUC 6060 TEACHING, INTERVENTION METHODS AND MATERIALS FOR SPECIAL STUDENTS

Study of the principles, techniques and innovative teaching strategies, materials, design and environment management for promoting inclusion at all levels. Analysis of appropriate practices and interventions, programming, and health factors that affect the inclusion of students with disabilities.

3 credits

EDUC 6066 TECHNOLOGICAL AID IN TEACHING EXCEPTIONAL STUDENTS

Application of the use of technology to facilitate the teaching and learning process of exceptional students. Includes the necessary adaptations of this technology for the home, school and learning communities.

3 credits

EDUC 6068 ADVANCED LANGUAGE AND READING

Advanced laboratory course in the procedures and practices of teaching language and reading. Clinical practice with individuals and small groups of children at the elementary and secondary levels. Emphasis on the development of practical and informal techniques and materials, diagnosing reading difficulties and the development of adequate reading skills and interests.

3 credits

EDUC 6079 INSTRUCCIONAL LEADERSHIP

Nature and functions of the supervision and competencies for the improvement of the education-learning process and other related services. Practical experiences in the educational scenario are required.

3 credits

EDUC 6094 WORKSHOP IN EDUCATIONAL MANAGEMENT

Integration of theory and practice in the different areas of educational management. Emphasis on the relationship of theory and practice in the implementation and management of programs.

3 credits

EDUC 6113 EDUCATIONAL ADMINISTRATION (PK - 6)

Application of theories and models related to the basic strategies of decision-making in the principal work areas of educational administration at the elementary level. Areas include personnel management and supervision, finance, school organization, school population, educational programs and interaction between the school and the community. Includes case studies and school visitations for the purpose of creating an administrative and supervisory environment.

3 credits

EDUC 6124 EDUCATIONAL ADMINISTRATION (7-12)

Application of theories and models related to the basic strategies of decision-making in the principal work areas of educational administration at the secondary level. Areas include personnel management and supervision, finance, school organization, school population, educational programs and interaction between the school and the community. Includes case studies and school visitations for the purpose of creating an administrative and supervisory environment.

3 credits

EDUC 6143 TRANSITION PROCESS AND EMPLOYMENT IN SPECIAL EDUCATION AND VOCATIONAL REHABILITATION

Employment of persons with severe handicaps; definition and concepts, vocational adjustment and legal basis. Emphasis on current employment models in vocational rehabilitation agencies at the state and federal levels and in the transition of students with handicaps into the world of work.

3 credits

EDUC 6210 HUMAN RESOURCES AND LABOR RELATIONS

Practical applications of theories, principles, legal aspects, techniques, and modern procedures in faculty and administrative personnel management in higher education. Strategies aimed at satisfying professional and occupational competencies required by such institutions.

3 credits

EDUC 6220 DEVELOPMENTAL PROCESS

Theories of human development. Conceptual focuses and paradigms facilitating the interpretation of studies and the application of findings in the field. Emphasis on the critical analysis of research studies. Current trends in research methods of human development. Practical experience is provided.

3 credits

EDUC 6230 STUDENT SERVICES

Student needs in Higher Education communication and motivational processes and the support services offered. Discussion of laws and regulations that affect students. Analysis of the nature and roles of student organizations, and the cultural activities that nurture and contribute to the integral development of students.

3 credits

EDUC 6240 TECHNIQUES IN BEHAVIOR ANALYSIS

Application of learning principles and techniques in behavior analysis to the exceptional population. Students will apply these techniques to groups and individually. Direct experience in the application of knowledge acquired.

3 credits

EDUC 6270 EVALUATION AND DESIGN OF TEACHING FOR EXCEPTIONAL STUDENTS

Application of formal and informal instruments in the evaluation of exceptional students. Use of the evaluation results to design and implement the Individual Teaching Program.

3 credits

EDUC 6281 SUPERVISED PRACTICE I

Practical experience in a rehabilitation or educational service setting or in a related community agency. Includes, under the supervision of the professor, individual interventions in the planning, administration, correction and

interpretation of tests and the writing of reports. Students are required to complete a minimum of 160 hours of practice at their assigned center at the rate of eight hours weekly, and are required to devote 2.6 hours of reading and writing outside the center. The supervised practice will be conducted from Monday to Friday within the regular work schedule of the center. Prerequisite: EDUC 5148.

3 credits

EDUC 6282 SUPERVISED PRACTICE II

Culmination of the supervised practical experience in the application of the techniques and methods of vocational evaluation. The student will perform all the functions of a vocational evaluator. A minimum of 160 hours, including eight hours weekly of direct service is required. Prerequisite: EDUC 6281.

3 credits

EDUC 6300 TEACHING READING AND WRITING TO EXCEPTIONAL STUDENTS

Analysis of formal and informal methods used to detect reading-writing difficulties. Application of remediation strategies. Includes practice in detecting needs for individual programming, by case studies and direct experiences.

3 credits

EDUC 6310 METHODOLOGY IN TEACHING MATHEMATICS

Analysis of the methods and strategies of teaching mathematics. Discussion of the trends in the educational system, the philosophical bases: behaviorism and constructivism, and controversies in the teaching of mathematics. Review of documents of the Puerto Rico Department of Education and of professional associations related to the teaching of mathematics.

3 credits

EDUC 6320 TEACHING MATHEMATICS TO EXCEPTIONAL STUDENTS

Application of methods used to detect difficulties in teaching and learning mathematics. Includes the study of formal and informal teaching methods, the use of remediation strategies and the application of technology. Provides practice in the detection of needs as well as for the individual programming, through case studies and direct experiences.

3 credits

EDUC 6340 SPEECH DEVELOPMENT AND DISORDERS

Analysis of theories and principles on the acquisition and development of speech; and the relation between speech, learning and thought. Study of speech disorders, language and communication. Teacher participation in the coordination of related services. Analysis of related research.

3 credits

EDUC 6345 METHODS OF EVALUATION

Planning and design of evaluation of educational projects. Practice in compiling, coding, processing and analyzing evaluation information. Identification of difficulties in the evaluation project and training to avoid them in practice. Prerequisite: EDUC 6024.

3 credits

EDUC 6360 THE FAMILY IN THE EDUCATION OF HANDICAPPED CHILDREN

Analysis of the problems associated with parents and families involved in rearing handicapped children. Techniques for effective communication between parents and teachers are presented as well as the resources available for assisting the parents. The importance of parents in the educational process, the rights and importance of values and professional ethics in the interaction process. Includes field experience, contacts with parents and simulated experiences.

3 credits

EDUC 6380 ADMINISTRATION OF SPECIAL EDUCATION PROGRAMS

Principles of special education administration. Analysis of administrative problems inherent with the compliance of the requirements established by state and federal laws governing service and providing protection to the public. Discussion of the principles of professional ethics and value conflicts in providing special education services.

3 credits

EDUC 6400 STUDENT ASSESSMENT

Analysis of assessment instruments used to understand the individual in an integrated way. Administration and interpretation of standardized tests and other normalized instruments and their integration into the evaluation process. Includes the ethical and legal aspects that govern the evaluation process.

3 credits

EDUC 6420 LIFE AND CAREER DEVELOPMENT

Analysis of the life and career development theories, sources of information, occupational trends, decision making processes, and techniques to facilitate the development of life and career. Emphasis on the attention to the different groups in the population. Includes the ethical and legal aspects that govern life and career counseling. Practical experiences are provided. Prerequisite: EDUC 6220.

3 credits

EDUC 6451 THEORIES OF COUNSELING

Analysis of the theoretical frames that support the counseling practice. Review of classic and contemporary theories that serve as a base for developing an individual system of intervention, conceptualized in the ethical-legal aspects of the profession. Includes the study of the psychodynamic, behavioral, humanistic and cognitive approaches. Prerequisite: EDUC 5370.

3 credits

EDUC 6452 INDIVIDUAL COUNSELING SKILLS

Analysis of the concepts, models, strategies and techniques of individual intervention in the counseling process. Emphasis on the practice of techniques and skills that will be demonstrated through practical simulations, recordings and other experiences with consideration of the ethical and legal aspects. Includes 30 hours of practical application. Prerequisite: EDUC 6451.

3 credits

EDUC 6456 DEVELOPMENT AND EVALUATION OF COUNSELING PROGRAMS

Analysis of organizational principles, personnel interaction patterns and their function in counseling programs. Includes the planning, organization, initiation and promotion of the programs. Emphasis on adequate procedures and methods for the evaluation of counseling programs.

3 credits

EDUC 6460 COUNSELING AT THE ELEMENTARY LEVEL

Analysis of the traits of the elementary school population and their implication in the planning and offering of counseling services in this level. The course requires the practical participation in simulations, recordings and practical experiences.

3 credits

EDUC 6470 GROUP COUNSELING SKILLS

Analysis of the theories, techniques and procedures used to develop an intervention system in group counseling, considers the ethical and legal aspects of the profession. Participation in activities that facilitate the development of the competencies and skills necessary for group counseling. Includes 30 hours of practical application. Prerequisite: EDUC 6452.

3 credits

EDUC 6472 THEORY OF FAMILY AND COUPLES COUNSELING

Analysis of the theories, research and models for family and couples counseling. Discussion of the formation of genre and its relation with the couple and the family. Review of strategies and techniques for intervention.

3 credits

EDUC 6480 SEMINAR: CONTEMPORARY PROBLEMS AND TRENDS

Topics selected according to the problems, challenges and demands of current society.

3 credits

EDUC 6510 ORGANIZATION AND ADMINISTRATION OF OCCUPATIONAL PROGRAMS

Organizational patterns and trends in the different levels in which education and training are given in preparation for employment. Analysis of factors affecting the organization, the control and administration of occupational forming programs. Analysis of the development, use and evaluation of resources.

3 credits

EDUC 6520 SUPERVISION IN OCCUPATIONAL PROGRAMS

Structure of the functions and supervision of the development of competencies for improving the teaching-learning process in occupational programs and other teaching related services.

3 credits

EDUC 6530 STRATEGIES APPLIED TO MANAGEMENT OF THE OCCUPATIONAL WORKSHOP

Analysis and evaluation of teaching models and the selection of teaching strategies applicable to the diverse disciplines in the different program areas of technical and vocational education. The managerial processes of planning, handling and control of activities will be analyzed through the methodology of the occupational workshop.

3 credits

EDUC 6540 ASSESSMENT AND MEASUREMENT OF LEARNING IN OCCUPATIONAL EDUCATION

Assessment and evaluation of learning used in occupational programs. Planning for evaluation; preparation, administration and correction of tests and other evaluation instruments. Statistical analysis of the results of tests and other evaluation instruments and their interpretation and application in the teaching process.

3 credits

EDUC 6550 CURRICULUM DESIGN IN OCCUPATIONAL EDUCATION

Curriculum fundamentals and their application to the development of different occupational programs. Analysis of the different models of curricular design and of the curriculum as a system.

3 credits

EDUC 6560 CURRICULAR TRENDS IN OCCUPATIONAL EDUCATION

Evaluation of innovative curricular projects in Puerto Rico and other parts of the world. Analysis of the educational practices that enable students to be more competitive in their occupation.

3 credits

EDUC 6570 OCCUPATIONAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS

Current issues and practices in academic and vocational programs at the secondary level for students with special needs. Economic, educational and legal factors influencing the implementation of these programs. Traits of students with special needs, educational programs, facilities, equipment and services required; curricular modifications, educational strategies and evaluation procedures.

3 credits

EDUC 6580 COMPUTERS IN EDUCATION

Existing computer programs for teaching and use in educational programs such as: tutorials, word processors, art publishing, grade register and specific programs used in teaching and in its evaluation.

3 credits

EDUC 6590 EVALUACIÓN MODELS OF OCCUPATIONAL PROGRAMAS

Analysis of evaluation theories and models. Application to occupational programs in order to determine the effectiveness of current programs.

3 credits

EDUC 6601 VIRTUAL LEARNING COMMUNITIES IN HIGHER EDUCATION: EXPERIENCE I

Analysis of the principles, foundations and applications of distance learning technology, the typology and characteristics of virtual learning communities and the trends and controversies in this type of educational environment. Reflection, analysis and construction of a proper significance with respect to the experiences obtained as university online program students. Bibliographical search on the development of virtual communities, discussion of ethical aspects of distance learning and reflection on the experience of participating in a virtual learning community.

1 credit

EDUC 6602 VIRTUAL LEARNING COMMUNITIES IN HIGHER EDUCATION: EXPERIENCE II

Planning and development of a virtual learning community and reflection on the experience of using educational technology. This experience continues in course EDUC 6603. Prerequisite: EDUC 6601.

1 credit

EDUC 6603 VIRTUAL LEARNING COMMUNITIES IN HIGHER EDUCATION: EXPERIENCE III

Discussion of strategies for maintaining virtual learning communities and creation of a portfolio where the masters degree experiences related to the use of technology and distance education are compiled. Prerequisite: EDUC 6602.

1 credit

EDUC 6605 CURRENT PROBLEMS AND CONTROVERSIES OF HIGHER EDUCATION IN LATIN AMERICA

Analysis of the current problems of higher education, such as: teaching in the globalized world, innovation and use of new technologies, university government and policies adopted by Latin American countries, efficiency, quality and fairness in higher education. Discussion of the external and internal factors that affect the university's government and its effects on teaching.

3 credits

EDUC 6610 LEARNING THEORIES AND TEACHING MODELS IN HIGHER EDUCATION

Study of the learning theories and the teaching models that guide the educational practice in diverse contexts of higher education. Educators become qualified in using pedagogical approaches that facilitate the development of significant learning experiences applicable to determined social and cultural contexts. Analysis of the implications of integrating technology and research as a mean to reflect on educational practices.

3 credits

EDUC 6615 EDUCATIONAL TECHNOLOGY IN HIGHER EDUCATION

Analysis of the uses of educational technology utilized in the teaching and administration of higher educational institutions in Latin America and the Caribbean. Study of the applications and equipment most used for integrating technology in higher education. Planning, design and evaluation of technology use in higher education.

3 credits

EDUC 6620 PLANNING AND EDUCATIONAL DESIGN IN HIGHER EDUCATION

Integration of knowledge and skills used to plan educational programs in higher education. Emphasis on the development of educational designs that promote dynamic learning environments in response to the social, political and economic changes that contemporary higher educational institutions face in different contexts.

3 credits

EDUC 6624 MANAGERIAL PRACTICES IN EDUCATIONAL SCENARIOS

Application of organizational theory and research in the major task areas of educational management. Critical analysis of problems in actions with the community, personnel management, finances, facilities, equipment,

program and other areas of interest. Includes case studies, simulation and role playing in order to create a suitable management environment.

3 credits

EDUC 6850 SEMINAR IN SPECIAL EDUCATION

Analysis of practices, current problems and modern trends on teaching exceptional students.

3 credits

EDUC 6861, 6862 FIELD STUDY SEMINAR

Student participation, either independently or as part of a team in a program of educational development or reform which is underway in the field and partially or wholly supervised by the University. Weekly or biweekly meetings with a seminar director and preparation of a report with particular emphasis on evaluation. Prerequisite: Permission from the advisor.

3 credits per course

EDUC 6900 THESIS SEMINAR

Identification of a research topic in the field of education; analysis of literature and development of the thesis proposal. Grade: P/NP.

3 credits

EDUC 6910 PRACTICE TEACHING

One semester of teaching experience under the direction of a special education teacher in a public school or in other appropriate scenarios which have handicapped children and have been approved by the University.

3 credits

EDUC 6911 PRACTICUM

Integration of the knowledge, skills and attitudes of the counseling profession in organizations, corporations, institutions, government agencies or educational institutions under the supervision of a licensed professional adviser. Requires completing a minimum of 200 hours of practice. Prerequisite: Have passed all specialization courses.

3 credits

EDUC 6914 INTERNSHIP

Under the supervision of a faculty member, each student is assigned to a school director, superintendent of schools or an administrator of an educational organization. In this situation, the student obtains experience in administration and supervision, making a work plan for a year, a daily program, case reports; additionally, the student participates in actual organization and supervision and carries on research, thus developing competence and leadership. Prerequisite: Permission from the advisor.

3 credits

EDUC 6915 INTERNSHIP IN EDUCATIONAL MANAGEMENT (PK - 6)

Supervised practice in management related tasks. This will be performed under the supervision of a faculty member and will consist of a minimum of 8 hours of practice weekly during the semester. Includes periodic meetings and seminars with the faculty member.

3 credits

EDUC 6916 INTERNSHIP IN EDUCATIONAL MANAGEMENT (7-12)

Supervised practice in management related tasks. This will be performed under the supervision of a faculty member and will consist of a minimum of 8 hours of practice weekly during the semester. Includes periodic meetings and seminars with the faculty member.

3 credits

EDUC 6917 INTERNSHIP IN HIGHER EDUCATION

Student placement in academic, administrative and student affairs scenarios at the higher education level, under the guardianship of a higher education administrator and the supervision of a faculty member. The student will be

placed in a position that will allow the application of the program's acquired competencies. The internship requires a minimum of 130 hours. Prerequisite: a minimum of 18 credits approved in the program with a grade point average of 3.00 or more.

3 credits

EDUC 691A INTERNSHIP IN INTERDISCIPLINARY SPECIAL EDUCATION

Integration of the knowledge and skills acquired through a supervised clinical experience in inclusive environments with infants, preschool children and students at the elementary, junior and high school levels. Students will analyze the importance of collaboration centered on the family, the placement in appropriate and inclusive environments and the empowerment of the family to make decisions. Two hundred twenty-five (225) hours at the rate of 15 hours weekly in a center selected by the University professor are required. The center should actively promote the inclusion of children with disabilities. Prerequisites: have approved 27 credits of the Specialization Requirements.

3 credits

EDUC 6923 INTERNSHIP IN ADMINISTRATION AND SUPERVISION OF OCCUPATIONAL PROGRAMS

Internship in educational settings under the supervision of a faculty member from the Education Program. Students will acquire experience in the administration and supervision of vocational and technical schools by preparing a yearly work plan, a daily schedule and case reports. Students will be assigned to a school director, a school superintendent or an administrator of an educational organization. A minimum of eight hours of practice per week is required. Includes periodic meetings and seminars with the faculty supervisor.

3 credits

EDUC 6925 INTERNSHIP AND RESEARCH IN OCCUPATIONAL PROGRAMS

Practical experience in an organization related to the occupations included in the educational offerings of the Department of Education and other private institutions that prepare for employment. Skills in the occupational area will be developed while knowledge related to the way to complete or strengthen the occupational skills of students is acquired. Requires the preparation and application of a research project on the technological changes in industry that have an impact on the occupation curriculum. A minimum of 120 hours of internship is required.

3 credits

EDUC 6932 RESEARCH OR APPLICATION PROJECT IN THE AREA OF SPECIALIZATION II

Academic experience directed to the development of a research project or application of the specialization under the supervision of a professor.

3 credits

EDUC 697_ INTEGRATION SEMINAR IN SPECIAL EDUCATION

Evaluation of theories, concepts and principles that support the practice of special education and the educational services offered to exceptional students. Synthesis and evaluation of models and design of planning, teaching and evaluation of students of diverse exceptions. Includes research analysis and special projects.

3 credits

EDUC 697A INTEGRATION SEMINAR

This course is for meeting the Requirements of Comprehensive Examinations and Other Options for Masters' Programs.

3 credits

EDUC 6990 THESIS

Research project on a problem that will add information to existing knowledge in the area of education. This project requires the use of statistical methods to analyze gathered data. Prerequisite: Permission from the advisor. Grade: P/NP.

3 credits

EDUC 7003 FORMATION AND DEVELOPMENT OF EDUCATIONAL THOUGHT IN PUERTO RICO

Analysis of the formation and evolution of the educational thought that has guided education in Puerto Rico from the nineteenth century to the present.

3 credits

EDUC 7010 SOCIO-SCIENTIFIC CONCEPTS OF EDUCATION

Analysis of the relationship that exists between scientific strategies, theories and models and their application in identifying solutions for the educational problems society faces today.

3 credits

EDUC 7020 CULTURE, EDUCATION AND PHILOSOPHY

Analysis of anthropological and philosophical theories that give direction and illustrate the function and purposes of education in the transmission, preservation and change of culture and its elements within a local and global context.

3 credits

EDUC 7030 ANALYSIS OF HUMAN BEHAVIOR

Analysis of the philosophical and psychological background of learning, personality and human development theories as instruments for understanding human behavior. Emphasis on the application and implication of the theories in the teaching and learning processes.

3 credits

EDUC 7040 LOGIC AND LANGUAGE

Analysis of the foundations of the logical structure of discursive language and its relevance to understanding the process of communication in the dynamics of teaching. Emphasis on the practice of logical analysis to strengthen attitudes and critical thinking skills.

3 credits

EDUC 7050 STATISTICS

Analysis and application of descriptive, inferential and non-parametric statistics in different types of computing systems and their application to scientific investigation.

3 credits

EDUC 7060 RESEARCH METHODS I

Analysis and application of quantitative methods and techniques in educational research. Elaboration of a design for quantitative research.

3 credits

EDUC 7070 RESEARCH METHODS II

Analysis and application of qualitative methods and techniques in educational research. Elaboration of a design for qualitative research.

3 credits

EDUC 7100 COURSE DESIGN

Models for identifying, selecting and planning formal and informal educational activities, and for evaluating them.

3 credits

EDUC 7205 HISTORICAL FOUNDATIONS OF HIGHER EDUCATION

Analysis of the historical development of the institutions of higher education in Europe, United States, Latin America and Puerto Rico up to the present. Discussion of the philosophical, social and psychological elements.

3 credits

EDUC 7500 WORKSHOP ON COMPETENCY-BASED CURRICULUM DEVELOPMENT

Each student will undertake a project and present a curriculum based on the competencies developed.

3 credits

EDUC 7510 COMPARATIVE EDUCATION

Comparative analysis of educational policies, models and practices of educational systems in different countries. Emphasis on the philosophical, sociological and psychological foundations of the process of internationalization in areas of organizational change, curricular innovation, professional development of educational and administrative personnel and student mobility.

3 credits

EDUC 7530 EDUCATION FOR PEACE: THE INDIVIDUAL, SELF-MANAGEMENT AND SOCIAL DEVELOPMENT

Analysis of the role education holds for peace in contemporary societies and their educational systems. Emphasis on contemporary trends and future projections on massive communications and technologies to encourage and develop social and cultural equality.

3 credits

EDUC 7540 EDUCATION AND ECONOMIC AND SOCIO-POLITICAL DEVELOPMENT IN PUERTO RICO

Analysis of economic and socio-political development in Puerto Rico since the beginning of Spanish colonization. Emphasis on the changes that took place from the twentieth century to the present. Includes their implications for educational purposes, values and conditions of life in the Puerto Rican context.

3 credits

EDUC 7550 ACADEMIC PLANNING SYSTEMS FOR POSTSECONDARY INSTITUTIONS

Study and analysis of academic planning systems according to the theories and models upon which they are based. Each student must make a comparative analysis of at least two planning systems for postsecondary educational Institutions.

3 credits

EDUC 7560 INSTITUTIONAL RESEARCH

Study and analysis of theories and principles upon which institutional research is based. Emphasis on the development of a project of institutional research.

3 credits

EDUC 7570 AUTHORITY AND POWER IN EDUCATIONAL ADMINISTRATION

Concepts of authority and power and implications for administration in exercising both. Analysis of the foundations from which authority and power spring and of the different kinds of authority and power that characterize educational institutions together with their corresponding implications.

3 credits

EDUC 7580 COMPARATIVE ORGANIZATIONAL STRUCTURES IN EDUCATIONAL ADMINISTRATION

Diverse structures for organizing educational administration. Comparison in terms of the variables that condition them and their effects on administration.

3 credits

EDUC 7590 WORK, MOTIVATION AND OCCUPATIONAL SATISFACTION IN EDUCATIONAL ADMINISTRATION

Analysis of occupational factors in educational administration and their relationship to the interest, availability, satisfaction and motivation of employees.

3 credits

EDUC 7600 JOB OPENINGS IN EDUCATIONAL ADMINISTRATION

Existing and future job openings in educational administration. Analysis of the competencies needed to fill these jobs. Study of techniques and strategies to develop the competencies needed in the changing world within which educational administration functions.

3 credits

EDUC 7610 FACULTY EVALUATION AND DEVELOPMENT

Principles, models and strategies upon which the establishment of faculty evaluation and developmental systems are based. Experience in the analysis of evaluation systems and developmental programs is offered.

3 credits

EDUC 7620 EDUCATIONAL POLICY AND ALTERNATIVES FOR THE FUTURE

Philosophy of “futurism” and its application to the formulation of educational policy. Interdisciplinary approach to educational planning and program development from the “futuristic” point of view.

3 credits

EDUC 7630 DESIGN OF EDUCATIONAL FACILITIES AND SYSTEMS

Design of educational systems that include the physical facilities needed for the achievement of goals. Needs, evaluation, individual participation, the development of long and short-range plans and educational specifications.

3 credits

EDUC 8100 THEORETICAL FOUNDATIONS AND PRINCIPLES FOR THE STUDY OF CURRICULUM AND TEACHING

Analysis of the historical evolution of curriculum. Review of the theories that explain the relationship between curriculum, teaching and the investigative paradigms.

3 credits

EDUC 8103 CONTEMPORARY THEORETICAL PERSPECTIVE FOR THE STUDY OF CURRICULUM AND TEACHING

Application of the theories and approaches that guide discussion and analysis of contemporary curriculum and their implications in teaching.

3 credits

EDUC 8105 EDUCATIONAL POLICY AND CURRICULAR IMPLEMENTATION

Analysis of institutional educational policies that affect the practices of implementing new curriculums. Includes human, physical and fiscal resources; accrediting agencies, plan for the continuing education of faculty and related personnel and the development of evaluation criteria of the implementation process.

3 credits

EDUC 8110 DESIGN AND CONSTRUCTION OF EDUCATIONAL PROGRAMS

Analysis of the principles and models that guide the design of educational programs. Design and construction of curricular projects to solve specific identified needs.

3 credits

EDUC 8120 THE SCIENCE OF “FUTURISM” AND EDUCATION

Review of “futurism” as an alternative in the search for solutions to problems posed by contemporary education. Implications for the design of educational programs, their implementation and evaluation.

3 credits

EDUC 8130 LEARNING AND TEACHING

Analysis of the concept of learning, its principles and their relation with the processes of thought and teaching. Discussion of research dealing with the internal factors that affect the processes of learning and teaching. Includes the processes of development of concepts, skills and attitudes.

3 credits

EDUC 8140 READING AND WRITING AT COMPLEX LEVELS OF KNOWLEDGE

Analysis of social, linguistic, psychological and technological factors that condition the learning of reading and writing. Recent strategies and approaches to stimulate the student to understand and apply reading and writing processes at complex levels of knowledge. Development of taste in and appreciation for reading and writing as a means of personal enrichment.

3 credits

EDUC 8150 CURRICULUM AT THE POSTSECONDARY LEVEL

Critical review of the history, philosophy, theories and principles that serve as base for the curriculum at the postsecondary level. Analysis and application of models for the design, planning, development and implementation of curricula at the postsecondary level. Includes the repercussions of accrediting agencies in curriculum.

3 credits

EDUC 8160 MODELS OF CURRICULAR EVALUATION

Analysis of the theories, principles and practices of evaluation models and their application in diverse educational scenarios.

3 credits

EDUC 8163 CONSTRUCTION AND VALIDATION OF TESTS AND EVALUATION AND RESEARCH INSTRUMENTS

Analysis of diverse methods of evaluation and measurement applied to the field of education. Emphasis on effective development of scales, construction of questionnaires, administration of tests and systems of interpretation, as well as the validity and reliability of the instrument. Includes discussion of tests of diverse content, their use and application for the evaluation of capacities, attitudes and interests and the search for data and objective information.

3 credits

EDUC 8165 MODELS FOR CURRICULAR DEVELOPMENT

Critical review of different curricular models from the analysis and evaluation of educational projects in diverse social and cultural contexts. Requires the construction of a model for curricular development.

3 credits

EDUC 8170 FOUNDATIONS OF VIRTUAL TEACHING

Critical analysis of the principles and theories that serve as foundation for virtual education and the research of diverse scenarios and effective teaching techniques for the implementation of virtual offerings. Discussion of the technological resources, synchronous as well as asynchronous, used to promote learning in virtual environments.

3 credits

EDUC 8173 MODELS OF INSTRUCTIONAL DESIGN FOR ONLINE COURSES

Review of the models of instructional design applicable to virtual education, with emphasis in online courses. Analysis of the systematic process of instructional specifications to promote quality of instruction. Evaluation of distribution systems for didactic materials and of the implementation of online courses.

3 credits

EDUC 8175 CREATIVE THOUGHT IN EDUCATION

Analysis and integration of theories, models, approaches and research related to creative thought in aspects such as teaching, development of learning programs and curricular change. Includes the application of strategies, techniques and means to develop and strengthen creative thought, at the personal as well as the educational level.

3 credits

EDUC 8180 DEVELOPMENT OF TEACHING MODELS

Evaluation of the research related to the teaching processes at different levels and scenarios with emphasis on the teaching models. Requires the development of one's own teaching model.

3 credits

EDUC 8200 EARLY INTERVENTION WITH EXCEPTIONAL CHILDREN

Analysis of research and contemporary issues in the education of young children with handicapping conditions and their families. Curricula, methods, materials and intervention strategies.

3 credits

EDUC 8210 CURRICULUM DEVELOPMENT IN SPECIAL EDUCATION

Basic elements in curriculum development in general education and specifically in special education. Identification and examination of the forces which shape curriculum theory and practice. Consideration of problems facing contemporary professionals who design and evaluate curriculum.

3 credits

EDUC 8215 PUBLIC POLICY IN HIGHER EDUCATION

Analysis of the policies and processes of actions related to globalization of higher education. Discussion of the the external and internal environmental factors that affect public policies and university government.

3 credits

EDUC 8220 INCLUSION OF CHILDREN WITH DISABILITIES

Current research and practice of inclusion. Issues related to public opinion on inclusion, misconceptions and the controversies surrounding this reform initiative.

3 credits

EDUC 8225 LEGAL FOUNDATIONS OF HIGHER EDUCATION

Evaluation of the legal norms that govern higher education. Analysis of the local and federal laws, rules and legal doctrines as well as their implications in decision making in higher education.

3 credits

EDUC 8230 STUDENT POPULATION IN HIGHER EDUCATION

Analysis of the recent research related to individual, institutional and social factors that affect the performance and retention of students at the post-secondary level. Emphasis on the study of the needs of the different student populations in the context of the diverse types of post-secondary institutions.

3 credits

EDUC 8240 INSTITUTIONAL EVALUATION IN HIGHER EDUCATION

Analysis of the principles, models and theories of evaluation to determine the effectiveness in post-secondary institutions. Application of analytical technical aspects to measure the goals and objectives that are considered in the mission of the university and post-secondary systems, as well as in their plans and strategies.

3 credits

EDUC 8300 COUNSELING AND CONSULTING PROGRAM DESIGN

Evaluation of programs in terms of goals, purposes, operation, congruencies and effectiveness. Analysis of the procedures for the organization and administration of counseling and consulting programs and customer services.

Includes the theories of operational organization of programs and the coordination of services. Requires the preparation of a proposal for the creation of counseling or consulting program.

3 credits

EDUC 8320 INTERACTION LABORATORY

Laboratory work to emphasize the establishment of effective interpersonal relationships, self-understanding, understanding the psycho dynamics of human conduct and the interpretation of tests, as well as preparation for establishing a counseling relationship. Didactic and experimental approaches and limited experience with clients. Topics include discussion of moral dilemmas, motivation, emotion and attitudes and their relationship to personality development and character integration.

3 credits

EDUC 8330 STRATEGIES, METHODS, AND TECHNIQUES IN INDIVIDUAL COUNSELING

Analysis and practice of interventions in the process of individual counseling from different approaches. Critical evaluation of research made in this area. Emphasis on preventive intervention and development, in addition to remediation. Includes practical experiences in the counseling process, in the development and administration of cases, taking into consideration the stages of human development and the ethical and legal aspects of education. Requires 40 hours of practical experience.

3 credits

EDUC 8350 BEHAVIOR MODIFICATION AND ITS USE IN GUIDANCE

Study of the theory and application of processes of behavior modification in individual and group counseling. Approach is directed toward research done in the field, applied conduct, preparation of materials for guidance, assertiveness training, biofeedback, systematic desensitization and elimination of self-destructive habits.

3 credits

EDUC 8360 MARRIAGE AND FAMILY COUNSELING

Analysis of theories and research dealing with marriage and the family; exploration of critical issues in strategies for intervention in regard to marriage and family problems and tensions.

3 credits

EDUC 8370 AGE, SICKNESS AND DEATH: ACCEPTANCE COUNSELING

Discussion and analysis of problems, crises and themes in human development that offer multidimensional perspectives of the process of counseling mature adults, sick people and individuals in the terminal phases of life, using technical, biological, social, cognitive and emotional frameworks. Emphasis on therapeutic research that helps adults accept the realities of life.

3 credits

EDUC 8380 COUNSELING FOR THE INTEGRAL DEVELOPMENT OF THE EXCEPTIONAL INDIVIDUAL

Analysis of the biological, psychological and social needs of the exceptional population. Includes the current trends, approaches and intervention modalities in counseling for that population. Emphasis on the application and implication of the most adequate counseling theories to enable positive changes in the quality of life of people with handicaps, to facilitate their normalization process within our socio-cultural context. Requires practical experience.

3 credits

EDUC 8390 GROUP COUNSELING SEMINAR

Selection and use of group counseling theories in the assisting process with groups of special populations. Emphasis on the application of counseling strategies and techniques to facilitate the solution of human development problems. Requires 30 hours of lecture and 40 hours of practical experience.

3 credits

EDUC 8400 WOMEN COUNSELING SEMINAR

Study and analysis of the circumstances that affect the life of contemporary women; design and application techniques and strategies to develop the talent, capacity and personality of women and enable them to participate as equals in society. Discussion of situations such as rape, single mothers, discrimination in employment, inequality of opportunities, divorce, separation and family planning. Includes limited experiences with clients and research in different aspects of this topic.

3 credits

EDUC 8410 SEMINAR OF TRENDS AND CONTROVERSIAL MATTERS IN COUNSELING

Critical review of the trends and of controversial, ethical and legal matters, in the counseling field. The seminar offers students the opportunity to enrich their attitudes, knowledge and experiences by means of readings, analysis and discussion of topics of interest, relevant to the counseling profession.

3 credits

EDUC 8430 SPIRITUALITY IN COUNSELING

Review of the concept of spirituality and its difference with religion, philosophy, values and the concept of well-being. Emphasis on the importance and relation of spirituality with counseling. Includes the historical, theoretical and philosophical foundations to integrate spirituality in counseling.

3 credits

EDUC 8440 ADVANCED SEMINAR IN LIFE AND CAREER PLANNING

Analysis and application of the theories and models that prepare support professionals to attend to the needs of adult clients when confronting changes/transitions and adjustments in their career and in their developmental challenges. Emphasis on the competences for intervention with the supervisor/manager as facilitator for the development of careers of those supervised and as a manager of development and succession plans in an organization and in the planning for retirement.

3 credits

EDUC 8460 COUNSELING FOR CHILDREN AND ADOLESCENTS

Analysis of the strategies for the counseling of children and adolescents from the perspective of development, prevention and remediation. Emphasis on the research and application of counseling approaches and models to the children and adolescent population. Requires 30 hours of practical experiences in scenarios that offer counseling to children and adolescents.

3 credits

EDUC 8490 FAMILY VIOLENCE: THEORY AND INTERVENTION

Review of the macro systemic factors associated with family violence in the context of the cultural phenomenon of the Puerto Rican society. Analysis of the research and theories of social violence. Includes the studies of gender as a framework for the conceptualization and interventions in counseling, among others. Emphasis on relevant ethical and legal aspects. Prerequisite: EDUC 8360.

3 credits

EDUC 8500 MODELS, NORMATIVE AND DESCRIPTIVE THEORIES IN EDUCATIONAL MANAGEMENT AND LEADERSHIP

Analysis of theories, principles and models that support management of educational institutions. Comparison of normative and descriptive theories, and their implications in the effectiveness of the educational manager and other leaders.

3 credits

EDUC 8505 INFORMATION PROCESSING IN EDUCATIONAL MANAGEMENT

Critical analysis of the theories and practices applied to the dynamic of information processing for problem solving in educational management.

3 credits

EDUC 8515 EDUCATIONAL MANAGEMENT AND LEADERSHIP SEMINAR

Critical analysis of contemporary literature and research in the educational management and leadership field.

3 credits

EDUC 8520 HUMAN RESOURCES MANAGEMENT IN EDUCATIONAL INSTITUTIONS

Analysis of theories, principles, techniques and practices in personnel management in the educational scenario. Discussion of human behavior and its repercussions in organizational effectiveness.

3 credits

EDUC 8530 THE EDUCATIONAL LEADER: CHANGE AND THE DECISION-MAKING PROCESS

Ways, manners and practices of developing the administrators' capacities as educational leaders in today's society. Review of problems of contemporary society and their implications for schools and other institutions.

3 credits

EDUC 8540 LABOR RELATIONS IN EDUCATIONAL MANAGEMENT

Analysis of legal and labor foundations: their repercussions in educational management. Emphasis on the knowledge and administration of collective bargaining.

3 credits

EDUC 8545 PLANNING OF THE EDUCATIONAL BUDGET

Analysis of the basic foundations that control the preparation of a budget. Emphasis on the relations and functions of the budget and its implications in educational management.

3 credits

EDUC 8550 CONTEMPORARY PROBLEMS IN EDUCATIONAL MANAGEMENT SEMINAR

Critical analysis of contemporary managerial problems in educational institutions.

3 credits

EDUC 8560 EVALUATIVE PROCESS IN MANAGEMENT AND INSTRUCTIONAL LEADERSHIP

Analysis of the theories, principles and models of evaluation. Application of technical, analytical and statistical aspects for the interpretation of the evaluative process and their effects in determining the efficiency and effectiveness of management.

3 credits

EDUC 8565 INDUCTION IN EDUCATIONAL MANAGEMENT AND LEADERSHIP SEMINAR

Analysis of real situations by visits and observations in the educational scenario. Includes the study of managerial principles and strategies that offer imaginative and creative solutions to the educational problems of these scenarios.

3 credits

EDUC 8570 CONTEMPORARY AND OPERATIONAL APPROACHES OF EDUCATIONAL MANAGEMENT

Analysis of new approaches in educational management. Creation of novel and viable strategies for application to current educational scenarios.

3 credits

EDUC 8645 TEACHING METHODOLOGIES AND STRATEGIES FOR STUDENTS WITH SPECIAL NEEDS

Evaluation of the different methods and educative strategies of teaching students with special needs. Analysis of systematic planning with the methodologies and teaching strategies in the transition process in the different stages of the school life of the student with special needs.

3 credits

EDUC 8650 SEMINAR: SPECIAL EDUCATION PROBLEMS IN ADMINISTRATIVE PROCESSES

Critical evaluation of problems in the organization and administration of special education programs. Alternatives for improving administrative processes in these programs. Analysis and interpretation of readings in special education administration and supervision, with emphasis on the results of scientific research.

3 credits

EDUC 8655 CURRICULAR ADAPTATION AND ACCOMMODATIONS IN SPECIAL EDUCATION PROGRAMS AND TRANSITION SERVICES

Evaluation in the development of the curricular adaptation and arrangements in Programs of Special Education. Analysis of transition services, their function in the Individualized Educative Plan and its application in the Transition Services Plan. Prerequisite: EDUC 8645.

3 credits

EDUC 8660 THE EVALUATION PROCESS IN ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION

Study of models, theories and principles of evaluation. Application of proper technical, analytical and statistical aspects for the interpretation of the evaluation process and its effects in the determination of efficiency and effectiveness in special education administration and supervision.

3 credits

EDUC 8665 PRACTICES AND PROCEDURES OF SPECIAL EDUCATION AND TRANSITION SERVICES

Evaluation of the practices and service procedures of special education and transition that students with special needs receive. Comparison of transition services between the different government agencies with an educative and vocational approach. Design and writing of individual transition plans and their integration in the individualized educative plan.

3 credits

EDUC 8670 ORGANIZATION AND ADMINISTRATION OF SPECIAL EDUCATION PROGRAMS

Survey of topics that directly affect the quality of the organization and administration of programs for students with disabilities.

3 credits

EDUC 8680 TECHNOLOGICAL ASSISTANCE APPLIED TO SPECIAL EDUCATION AND VOCATIONAL REHABILITATION

Analysis of the processes of offering services of technological assistance for people with handicaps. Integration of general knowledge on reactive equipment and services of technological assistance according to the handicap categories. Consideration of the impact of federal and state regulations on technological aid in Special Education and Vocational Rehabilitation Programs.

3 credits

EDUC 8690 ASSESSMENT IN SPECIAL EDUCATION AND TRANSITION SERVICES

Evaluation of the assessment process in Special Education and transition services. Integration of assessment methods and procedures used for decision making, planning of individualized services and placement of the handicapped student. Diagnosis of needs and application of services through case studies in available special education and transition service programs.

3 credits

EDUC 8700 METHODS OF EDUCATIONAL PLANNING AND EVALUATION

Principles, theories and strategies that underlie educational planning and evaluation, practice in gathering, processing and analyzing educational information. Conceptualization and formulation of designs for educational planning and evaluation.

3 credits

EDUC 8710 SIMULATION AND FORMULATION OF EDUCATIONAL POLICIES

Theories, models and principles of simulation. Analysis and application of simulation techniques in the formulation of educational policies.

3 credits

EDUC 8730 QUANTITATIVE METHODS IN EDUCATIONAL PLANNING AND EVALUATION

Development and analysis of models for planning and evaluation. Study of technical, analytical and statistical aspects of educational experimentation.

3 credits

EDUC 8740 ANALYSIS OF READINGS AND RESEARCH IN PLANNING AND EVALUATION

Critical analysis of advanced, specialized readings and of recent research in educational planning and evaluation.

3 credits

EDUC 8900 TECHNOLOGICAL RESOURCES IN THE TEACHING OF ENGLISH AS A SECOND LANGUAGE

Development and use of audiovisual materials; use of the language laboratory; television, radio and movies in TESL.

3 credits

EDUC 8910 INTERNSHIP

Integration of the knowledge, skills and attitudes in work scenarios such as organizations, corporations, institutions, and government or private agencies under the supervision of a licensed professional advisor in the specialization. Emphasis on the role as consultant, with the professionals of the center as well as with community clients. Includes intensive experiences in the conceptualization of cases and intervention with individual and group counseling at the personal, family and occupational level. Requires a minimum of 300 hours.

3 credits

EDUC 8915 INTERNSHIP IN SPECIAL EDUCATION AND TRANSITION SERVICES

Integration experience of the knowledge, skills and the attitudes acquired in the specialization courses under the supervision of the professor. This teaching experience becomes full when the student assumes the role of consulting specialist with the personnel of the work scenario selected, the parents and the community. Requires a minimum of 125 hours of internship and a plan of activities agreed upon by the professor and the student. Prerequisite: Approval of all specialization courses.

3 credits

EDUC 8920 DEVELOPMENT AND EVALUATION OF TEACHING METHODS IN TESL

Theories of language acquisition (first and second) theories and methods of teaching; design of evaluation instruments; formative and summative evaluation; curriculum development.

3 credits

EDUC 8960 RESEARCH SEMINAR

Initiation and development of the research proposal that will serve as a working paper between the student and the Dissertation Committee.

3 credits

EDUC 8991 DISSERTATION

Development of the dissertation proposal. Requires the defense and approval of the dissertation proposal by the Dissertation Committee. Prerequisites: EDUC 8960 and have passed the comprehensive test.

3 credits

EDUC 8992 DISSERTATION

Writing of the dissertation. Requires the approval of the proposal by the Institutional Review Board (IRB). Includes the oral defense and approval of the final document by the Dissertation Committee. Prerequisite: EDUC 8991.

3 credits

Courses in Education in Diabetes (DIAB)

DIAB 5000 FUNDAMENTALS FOR CARE OF THE PERSON WITH DIABETES

Analysis of the concepts of normal metabolism, such as: glucose homeostasis, diabetes physiopathology, etiology, diagnosis criteria and classification in the health care of people with diabetes mellitus. Emphasis on the administration of therapies of diabetes mellitus.

4 credits

DIAB 5010 ADMINISTRATION OF AN EDUCATIONAL PROGRAM IN DIABETES

Analysis of the concepts in the training of self administration of diabetes. Includes bio-psycho-social and mental assessment and the formulation of an educational plan for a metabolic control of diabetes mellitus. Requires 30 hours of lecture and 90 hours of lab.

4 credits

DIAB 5020 DIABETES IN DIFFERENT STAGES OF GROWTH AND DEVELOPMENT

Study of diabetes mellitus in the different stages of growth and development in the human being. Emphasis on prevention, detection and the differences in the modalities of treatment and self handling of diabetes mellitus. Requires 30 hours of lecture and 90 hours of lab.

4 credits

DIAB 5030 DIABETES AND ITS COMPLICATIONS

Analysis of the different complications that people with diabetes or those that are in risk of developing the condition may present. Emphasis on preventive measures to prevent their development. Application of the suitable treatment modalities for the diverse complications.

3 credits

Courses in Educational Computing (ECMP)

ECMP 5100 FUTURE AND LEADERSHIP OF COMPUTER CHANGES IN EDUCATION

Analysis of the historical development and future trends, the forecast of computerized technological changes and their implications in educational computing. Includes general concepts about cognition and artificial intelligence, constructivism and the learning paradigm in education. Review of the philosophy of educational computing within the legal, educational, and social framework. Emphasis on the basic concepts of assistive technology, motivational principles and techniques, human relations, leadership and collaborative learning.

3 credits

ECMP 5105 DESIGN AND EVALUATION OF EDUCATIONAL SOFTWARE

Application of fundamentals of instructional design and their application to the development and evaluation of computerized educational materials and comparison of different design models. Includes techniques for the evaluation of programs and computerized equipment. Review of recent research that helps promote modern design techniques and evaluation of educational software.

3 credits

ECMP 5130 COMPUTER ASSISTED EDUCATIONAL MANAGEMENT

Analysis of the use of computers in academic administration. Study of techniques that may be used in the integration of computers for the academic task of evaluation. The use of software for performing administrative

tasks. Includes logistics and implementation of a management information system and networking within an educational environment. Requires additional time in an open lab.

3 credits

ECMP 5200 AUTHORIZING LANGUAGES

Application of an authoring language program. Requires additional time in an open lab. Prerequisites: ECMP 5100, 5105.

3 credits

ECMP 5240 SPECIAL PERIPHERALS, TELECOMMUNICATIONS AND NETWORKS

Application of basic concepts of telecommunications, devices, local networks and other networks. Use of communication software. Includes techniques of teleconferencing, distant learning, external database query and electronic mail. Management of some peripherals and computerized media such as videodisc, video camera, projectors, scanners, voice and music synthesizers. Emphasis on projects for handicapped persons and special education with computers. Requires additional time in an open lab. Prerequisite: ECMP 5100.

3 credits

ECMP 5245 COMPUTER PROGRAMMING

Application of a high-level structured programming language, programming oriented to the object and its fundamental principles. Use of subroutines using visual or object programming for the development of quality applications. Requires additional time in an open lab. Prerequisite: ECMP 5200.

3 credits

ECMP 5250 KNOWLEDGE BASES AND EXPERT SYSTEMS

Discussion of Artificial Intelligence (AI) and Expert Systems (ES). Includes historical aspects of AI and ES, as special types of software that try to emulate problem solving, rational decisions making, agents, search methods, and the construction and maintenance of the ES structure. Emphasis on the main structures for the representation of the knowledge: trios OAV (Objects, Attributes and Values), semantic networks, frames, rules and logical representation. Requires additional time in an open lab. Prerequisite: ECMP 5245.

3 credits

ECMP 6160 COMPUTER ASSISTED INSTRUCTION

Application of methods and techniques of computer assisted instruction: tutorials, drill and practice, simulation and discovery games. Integration of computerized topics in the curriculum. Practices with authoring languages, programming languages and software packages. Review of some examples of courseware. Requires additional time in an open lab. Prerequisite: ECMP 5245.

3 credits

ECMP 6170 TRAINING AND COMPUTERIZED PRACTICE

Analysis of problems and personnel training tasks in a business environment. Design programming and evaluation of training courses with computers and audiovisual materials. Personnel training in a business environment. Creation of user manuals and tutorials for self-learning. Use of simulations in personnel training. Requires additional time in an open lab. Prerequisite: ECMP 5200.

3 credits

ECMP 6300 INTERACTION BETWEEN THE USER AND THE COMPUTER

Critical analysis of the interaction of users with the computer taking into account the program design strategies, the user's level of experience, interaction styles and the use of engineering. Formal evaluation of the software and of its utility. Review of recent research that helps to promote the effective use of new technologies of information and communication in educational environments. Requires additional hours in an open lab. Prerequisite: ECMP 5105.

3 credits

ECMP 6310 GRAPHICS SYSTEMS AND ANIMATIONS

Application of the principles of assisted graphics design, data flowcharts and design supported by computer. Implementing graphics, drawing and animation with high resolution and color in the computer. Interactivity management of graphics. Use of painting packages, pad and the combination with video images. Includes rotation, hidden lines, shading, fading and texture. Requires additional time in an open lab. Prerequisite: ECMP 5200.

3 credits

ECMP 6320 ADVANCED PROGRAMMING FOR INTERNET

Analysis of languages, methodologies and advanced programming techniques for Internet. Application of new trends in programming: object oriented, logical and concurrent. Review of techniques in software engineering. Requires additional time in an open lab. Prerequisite: ECMP 5245.

3 credits

ECMP 6350 ARTIFICIAL INTELLIGENCE

Analysis of the principles and techniques of artificial intelligence. Includes the spaces of states and search processes, the representation of knowledge, automated inference: Boolean and diffused. Emphasis on the main applications: expert systems, natural language processing, vision, speech recognition, machine learning, and robotics. Requires additional time in an open lab. Prerequisite: ECMP 5250.

3 credits

ECMP 6355 KNOWLEDGE ACQUISITION AND INTELLIGENT TUTORS

Techniques for knowledge acquisition, domain mapping, and knowledge structuring. Induction methods, statistical applications and decision trees. Test analysis, evaluation and debugging of a knowledge base. Application of an intelligent tutor within a group design. Review of problems associated with intelligent tutors. Requires additional time in a computer laboratory. Prerequisite: ECMP 5250.

3 credits

ECMP 6400 DISTANCE LEARNING

Application, planning, evaluation and management of technological system and human resource in distance learning. Includes practical experience related to the creation and administration of a course on line and a videoconference course by using the platforms for managing distance education courses available at the Institution. Analysis of recent research that helps promote student learning in a distant educational environment. Requires additional hours in an open lab. Prerequisites: ECMP 5130, 5200.

3 credits

ECMP 6970 SEMINAR: ADVANCED TOPICS IN EDUCATIONAL COMPUTING

In-depth study of a problem associated with the field of educational computing. Prerequisite: ECMP 6260 or approval from the Program Director.

3 credits

ECMP 6975 RESEARCH SEMINAR IN EDUCATIONAL COMPUTING

Analysis of the procedure to follow in educational research. Identification of a research topic in the field of the educational computing. Use of computerized tools for research, revision of literature, selection of methodology and preparation of a research proposal. Prerequisites: ECMP 5100, 5105, 5130. Corequisite: ECMP 6160.

3 credits

ECMP 6980 PROJECT DEVELOPMENT FOR EDUCATIONAL COMPUTING

Analysis, design, development and implementation of a computerized project with educational applications. Includes the theoretical frame, storyboard, flowcharts, validation, references, conclusions and recommendations. Prerequisites: ECMP 6975 and authorization of the department director. Grade: P/NP.

3 credits

ECMP 6990 THESIS IN EDUCATIONAL COMPUTING

Development of a research theme or implementation of an original practical complex project in the area of educational computing. The theme as well as the thesis advisor should be approved by the department chairperson. Prerequisite: ECMP 6975. Grade: P/NP.

3 credits

Courses in English (ENGL)**ENGL 5030 PRINCIPLES OF LINGUISTICS**

Application of the principles and characteristics of human language. Analysis of the fundamental concepts and descriptive techniques of the subdisciplines of linguistics: phonetics, phonology, morphology, syntax and semantics.

3 credits

ENGL 5040 ENGLISH PHONOLOGICAL SYSTEM

Study and descriptive analysis of the English phonological system. Aspects of pronunciation in the teaching of English as a second language and interference with Spanish.

3 credits

ENGL 5050 ENGLISH MORPHOLOGY AND SYNTAX

Syntactic and morphological patterns of contemporary varieties of English. Semantic functions as reflected in syntax and morphology. Analysis of typical learning patterns of students of English as a second language.

3 credits

ENGL 5110 ENGLISH CLASS LITERARY TEXT READING

The teaching and assessment strategies of reading and composition of literary texts. Application of literary criticism and theory in teaching English as a second language.

3 credits

ENGL 5210 DRAMATIC LITERATURE

Analysis of dramatic literature representative of the principal categories of genre and period. Application of the foundations and the literary theories in the teaching of English as a second language.

3 credits

ENGL 5220 ACADEMIC TEXT WRITING

Strengthening and practice of advanced writing and composition skills useful for the preparation of professional projects and research. Emphasis on the norms and practical aspects of the language.

3 credits

ENGL 5230 LITERATURE FOR YOUNG READERS

Teaching strategies for teaching literature to young readers studying English as second language (ESL) students. Exploration of the literary foundations necessary for instruction; survey of available materials and criteria for selection.

3 credits

ENGL 5240 WRITING THEORIES AND THEIR APPLICATIONS

Analysis of theories and methods of teaching writing and their practical application to the study of ESL.

3 credits

ENGL 5290 PSYCHOLINGUISTICS

Analysis of the psychological aspects of linguistic behavior. Evaluation of the development of language in children and adults, speech perception and production, the reading process, comprehension and memory. Includes the recognition of expected functions in the developmental areas of language at the cerebral level.

3 credits

ENGL 5320 SOCIOLINGUISTICS

Analysis of the use of language. Includes the following topics: pragmatics; the structure of speech; sociocultural differences in the communicative strategy and linguistic forms; multilingualism and its function in language when constructing and maintaining social relations, whether symmetrical or asymmetrical, between and within social groups. Emphasis on the use of English in Puerto Rico.

3 credits

ENGL 5330 FIRST AND SECOND LANGUAGE ACQUISITION

Theories and description of the process of acquisition of morpho-semantic, lexico-semantic, phonological and paralinguistic systems in a first and second language. Comparison and contrast between the acquisition of a first and second language.

3 credits

ENGL 6090 READING IN A SECOND LANGUAGE

Analysis of the process that serves as a base to develop reading in a second language. Includes: psycholinguistic, sociolinguistic and neuro-linguistic perspectives.

3 credits

ENGL 6100 THEORIES AND PRINCIPLES OF TESL

Analysis of the traditional and innovating approaches, methodologies and trends in the teaching of English as a second language. Analysis of how these agree with recent findings on the nature of language and with language teaching and learning, specifically when learning English as a second language.

3 credits

ENGL 6113 MATERIALS AND TECHNIQUES FOR EISI AT THE ELEMENTARY, SECONDARY, POST SECONDARY AND ADULT LEVELS

Evaluation, adaptation and preparation of materials based on the techniques used to develop the language skills of elementary, secondary, post secondary, or adult level students who are learning English as a foreign language or as a second language. Language arts instruction is included in the areas of content, learning of skills, communication practice, and in the use of technological resources.

3 credits

ENGL 6120 SOCIO-CULTURAL ASPECTS OF PUERTO RICO AND THE UNITED STATES

Interdisciplinary course designed to provide teachers of migrant students with information about the socio-cultural, historical, political, legal, demographic and linguistic aspects of Puerto Rico and the United States.

3 credits

ENGL 6130 FUNDAMENTALS OF BILINGUAL EDUCATION

Fundamentals of bilingual education in Puerto Rico and the United States. Curriculum development for bilingual education.

3 credits

ENGL 6150 TRANSLATION

Analysis of the linguistic resources used in effective translations. Includes translation practice in a diversity of specific areas, primarily from Spanish to English. Application of translation theories to the practice process.

3 credits

ENGL 6170 ASSESSMENT OF LINGUISTIC ABILITIES

Study of the development of standardized tests and criteria for measuring language ability; statistical analysis and evaluation of tests; current theories of the measurement of language ability; measurement of linguistic mastery; effect of text format on teaching and learning.

3 credits

ENGL 6180 USING THE COMPUTER IN TESL

Preparation of educational material using a computer; evaluation and adaptation of computer programs; integration of this technology in curriculum and in the evaluation of learning.

3 credits

ENGL 6260 CONTEMPORARY LITERATURE OF THE UNITED STATES

Analysis of the works of literary significance in the United States today. Application of the foundations and literary theories in the teaching of English as a second language.

3 credits

ENGL 6310 CONTEMPORARY FICTION

Analysis of texts and critiques of fiction representative of the postwar period (World War II), excluding the literature of the United States. Application of the foundations and literary theories in the teaching of English as a second language.

3 credits

ENGL 6350 REPRESENTATIVE WORKS OF ENGLISH LITERATURE

Analysis of representative works of English Literature and their location within the literary movements to which they belong. Interpretative analysis of techniques, styles and subjects. Application of the foundations and literary theories in the teaching of English as a second language.

3 credits

ENGL 6530 RESEARCH METHODS

Analysis of the basic methods of research in the teaching of English as a second language, using up-to-date topics and pertinent approaches to research in this field. Application of knowledge in the writing of a proposal for an original research project or a review of literature.

3 credits

ENGL 6600 SUPERVISION IN TESL

Theory, methods and techniques in TESL: methods and techniques for measuring teaching effectiveness; teacher evaluation; theory and principles of supervision.

3 credits

ENGL 6610 CURRICULUM AND DEVELOPMENT IN ENGLISH AS A SECOND LANGUAGE

Theory and practice in the design of curricula for ESL programs. Needs assessment of language learners, identification of goals and evaluation of curricular effectiveness.

3 credits

ENGL 6904 APPLIED LINGUISTIC IN THE TEACHING OF ENGLISH AS A SECOND LANGUAGE

Analysis of the applications of the disciplines of linguistics, psycholinguistics and sociolinguistics in the process of teaching a first and second language. The course includes the study of contributions these fields have made to the understanding of how language functions in the classroom setting and how language develops in children. Emphasis on the study of the non-English speaker's linguistic behavior. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of English as a Second Language.

3 credits

ENGL 6905 A SECOND LANGUAGE ACQUISITION AND SOCIOCULTURAL ANALYSIS

Application of principles and trends of contrastive linguistics and socio-cultural analysis to the understanding and improvement of the teaching of English in non-native speaking areas. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of English as a Second Language.

3 credits

ENGL 6906 FUNDAMENTALS OF TEACHING OF ENGLISH AS A SECOND LANGUAGE: THEORY, PRACTICE AND ASSESSMENT

Application of linguistics, psychology and anthropology to the teaching of English as a second language. Exploration of how to design traditional evaluation tools and assessment that yield information on student progress to parents, administrators and the community. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of English as a Second Language.

3 credits

ENGL 6907 ADVANCED RESEARCH AND TECHNIQUES IN READING INSTRUCTION AND ASSESSMENT

Study of current research, methods and materials of reading instruction. Diagnosis of reading difficulties and remedial treatment techniques in working with non-English speaking children and adults. Emphasis on the student population whose first language is not English. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of English as a Second Language.

3 credits

ENGL 6908 ADVANCED RESEARCH AND TECHNIQUES IN WRITING INSTRUCTION AND ASSESSMENT

Study of current research, methods and materials of writing instruction. Diagnosis of writing difficulties and remedial treatment techniques in working with non-English speaking children and adults. Emphasis on the student population whose first language is not English. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of English as a Second Language.

3 credits

ENGL 6909 LITERARY CRITIQUE: ANALYSIS, TECHNIQUES AND ASSESSMENT

Intensive study of assessment techniques in the analysis of literary genres. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of English as a Second Language.

3 credits

ENGL 6970 INTEGRATION SEMINAR

Integration of the knowledge and skills acquired in the courses that make up the Masters in TESL. Emphasis on case analysis and on the research of current topics related to this field of study.

3 credits

ENGL 6992A RESEARCH PROJECT IN MA-TESL

Research project and writing on a theme that will contribute to the existing knowledge in the TESL area. Students will have a consecutive academic year to complete their research project. Grade: P/NP.

3 credits

Courses in Environmental Evaluation and Protection (ENEP)

ENEP 5110 ENVIRONMENTAL POLLUTANTS AND THEIR CONTROL

Study of the types of environmental pollutants; their origin, distribution and movement in the water, ground and air. Includes methods of control and the current regulation for each of them, as well as risk assessment.

2 credits

ENEP 5223 METHODS OF BIOLOGICAL ENVIRONMENTAL ANALYSIS

Study and evaluation of the theories and methods used in the biological analysis of water, air and soil. Emphasis on the different methods to evaluate and analyze diverse biological factors affecting the environmental quality.

2 credits

ENEP 5225 METHODS OF CHEMICAL ENVIRONMENTAL ANALYSIS

Survey of the theories, analytical methods and quantitative instruments of chemical environmental analysis applicable to the evaluation of different aspects of the environment. Emphasis on the diverse methods to evaluate and analyze the different chemical factors affecting environment quality.

2 credits

ENEP 5310 ENVIRONMENTAL PLANNING AND MANAGEMENT

Analysis of the factors affecting planning and environmental management for the optimal conservation of natural resources (biotic and abiotic) and the eradication or minimization of the contamination within an ethical frame for the best use and enjoyment of the present and future generations.

3 credits

ENEP 5945 ENVIRONMENTAL TOXICOLOGY

Evaluation of the fundamental concepts of environmental toxicology. Includes the manner through which the toxics enter, interact and are eliminated from the organisms. Discussion of the poisonous effects of metals, pesticides and solvents on individuals, the populations or the ecosystems and the procedures to carry out risk assessment and administration.

3 credits

ENEP 6110 ENVIRONMENTAL BIOREMEDIATION

Study of the different types of bioremediation technologies, *in situ and ex situ*, their importance in the conservation and protection of the environment. Analysis of the advantages and disadvantages of the use of bioremediation as a strategy for the removal of pollutants. Evaluation of the potential consequences of the use of bioremediation.

2 credits

ENEP 6200 METHODS OF ENVIRONMENTAL RESEARCH

Application of research skills within the scientific and ethical parameters using methods and techniques of environmental sciences. Discussion of the procedures of data collection and the support of environmental management of the principal federal and state agencies in Puerto Rico.

3 credits

ENEP 6230 CONTROL AND MANAGEMENT OF DANGEROUS WASTES

Survey of the nature, origin and control of dangerous wastes. Emphasis on the regulatory aspects of the "Resource Conservation and Recovery Act" (RCRA) that allows the evaluation of the administration of this type of waste. Analysis of the methods for the treatment and disposition of the dangerous wastes applying them to particular situations.

3 credits

ENEP 6330 ENVIRONMENTAL LAW

Study of environmental law in Puerto Rico and the impact of the legal processes in decisions affecting the environment. Emphasis on the state and federal laws and regulations for the control of contamination and the protection of the natural resources.

3 credits

ENEP 6970 ENVIRONMENTAL SEMINAR

Critical analysis and article review of scientific research in environmental sciences. Application of the methodology for the preparation of formal oral presentations on current subjects in the field of environmental evaluation and protection.

3 credits

ENEP 6980 ENVIRONMENTAL RESEARCH PROJECT

Selection and development of a research topic pertinent to environmental evaluation and protection. Includes the analysis of regulations, ethics, planning, control, and the environmental administration in the topic selected, as they

may apply. Requires the formal oral presentation of the analysis of the findings, interpretation of the results, conclusions and recommendations of the research project. Grade: P/NP.

3 credits

Courses in Environmental Sciences (EVSC)

EVSC 5010 ENVIRONMENTAL CHEMISTRY

Study and application of the concepts to attend and correct environmental problems related to the management and control of water, air and soil and their contamination. The development of products and chemical technology that affect the environment or can be used to restore the environment will be examined.

3 credits

EVSC 5020 BIostatISTICS

Application of descriptive and inferential statistical processes to the organization, analysis and interpretation of data related to health and environment.

3 credits

EVSC 5030 ENVIRONMENTAL HEALTH

Environmental health problems and ways to solve them, rationally and adequately by using the biological, physical and social components of the external ecological universe. Application of scientific knowledge in the control and adjustment of external factors that promote the health and well-being of the human race.

3 credits

EVSC 5040 URBAN ECOLOGY

Relationship between the technological equilibrium and urban ecology. Emphasis will be placed on the human impact created in satisfying human needs without jeopardizing the natural resources of the environment.

3 credits

EVSC 5050 ENVIRONMENTAL PROBLEMS IN PUERTO RICO

Origins and phases of environmental problems in Puerto Rico within a scientific, social and ethical context and rational ways to solve them adequately. The biotic components that govern the environmental network in Puerto Rico, their relation to urban development and the application of scientific knowledge to their reconciliation and control.

3 credits

EVSC 5100 BIOCHEMISTRY

The chemical study of the live material constituents including carbohydrates, lipids, proteins, nucleic acids, vitamins and minerals. The relationship of these constituents with life processes and environmental contamination will be studied.

3 credits

EVSC 5105 GEOGRAPHIC INFORMATION SYSTEMS AND APPLICATIONS IN ENVIRONMENTAL SCIENCES

Analysis of the particular properties of spatial data, structures and accesses to existing spatial data by means of advanced applications of Geographic Information Systems in environmental sciences. Application of Geographic Information Systems in making maps and in investigation and analysis of space environmental information. Requires 45 hours of lecture-lab.

3 credits

EVSC 5110 ECOLOGICAL ENVIRONMENT

Study of the ecological network, natural selection niches and succession. Effects of human activity on the ecosystems will be covered. The perspective of the course views humans as a species.

3 credits

EVSC 5115 EPIDEMIOLOGY

Principles, purposes and methods of epidemiology. Research methods for problems related to human diseases, emphasizing the relationship and balance of the host and the environmental factors.

3 credits

EVSC 5165 ENVIRONMENTAL INSTRUMENTATION

Development of skills in the use of instrumentation for the diagnosis, prevention and solution of environmental problems. Prerequisite: EVSC 5010.

3 credits

EVSC 5180 LIMNOLOGY

Study of different bodies of water, the live ecology of rivers, lakes and marine environments. Identification of changes in bodies of water caused by contamination and biotic and abiotic effects in the ecosystem.

3 credits

EVSC 5200 ENVIRONMENTAL BIOLOGY

Aspects related to the contamination of water and land due to poor management of solid waste. Included are sources, environmental destiny, transformers and biological effect of contaminants in aquatic organisms and humans. Discussion of techniques for sampling and evaluating the effects of contamination.

3 credits

EVSC 5220 ENVIRONMENTAL MICROBIOLOGY

Principles and application of ecology, the physiology and the kinetics of microbiological growth in the solution of the environmental problems.

3 credits

EVSC 5225 SANITARY MICROBIOLOGY

Application of microbiology and the use of the discipline to develop biological systems for water treatment. The student will use microbial techniques as a resource in the evaluation of the effectiveness of this system.

3 credits

EVSC 5245 GENETIC MICROBIAL TECHNIQUES

Principles and the application of the fundamentals of biotechnology in natural biological systems and their genetic manipulation. Requires 30 hours of lecture and 30 hours of lab. Prerequisites: BIOL 3107, 4604.

3 credits

EVSC 5250 CONTROL OF CONTAMINATION AND CURRENT ANALYSIS

Fundamental applications of limnology and ecological response in natural systems to organic and inorganic contaminants. Includes mathematical models to evaluate estuaries and stream currents.

3 credits

EVSC 5255 WATER ANALYSIS AND CONTAMINATION

Analysis of the phases that dominate the water cycles and human intervention in the contamination of this resource. Rivers, currents, lakes and the littoral will be studied as systems, emphasizing the environmental characteristics that control them.

3 credits

EVSC 5275 ENVIRONMENTAL TOXICOLOGY

Analysis and application of toxic agents according to their chemical characteristics. Includes the branches of toxicology and their relation to environmental health.

3 credits

EVSC 5285 PUERTO RICAN POLICY REGULATIONS

Study of the laws that apply to the management of environmental problems and the legal limitations related to environmental issues.

3 credits

EVSC 5310 WATER TREATMENT: OPERATION OF PHYSICAL AND CHEMICAL UNITS

Principles of the operation of units with chemical and physical processes for the treatment of wastewater. Emphasis on the evaluation of the processes to attain safe drinking water, and quality plant effluent.

3 credits

EVSC 5315 BIOREMEDIATION

Study of chemistry of the organic contaminants in the environment. Microbial degradation of contaminants, anaerobic and aerobic metabolisms. Analysis of the kinetics of biodegradation and system theories for biological treatment of contaminated soil and air.

3 credits

EVSC 5330 WATER TREATMENT: BIOLOGICAL OPERATION UNITS

Application of biology in the treatment of contaminated water. Study of the relationship between biological treatment and the effectiveness of water treatment units.

3 credits

EVSC 5510 RISK ASSESSMENT

The relationship between the exposure to contaminants and health risks. Concepts of toxicology and the movement of contaminants throughout the ecosystem will be discussed.

3 credits

EVSC 5515 DISPOSAL OF CONTAMINANTS

Physical and chemical mechanisms that define the disposal of contaminants. Discussion of the theoretical background on which existing models of the movement of contaminants is based. Prerequisite: EVSC 5010.

3 credits

EVSC 6101 RESEARCH METHODS APPLIED TO ENVIRONMENTAL SCIENCES I

Discussion of the use of the scientific method and technology in the search for scientific information, analysis of data related to the application of research to environmental sciences. In this course students must initiate the development of a research study related to the environment by preparing a preliminary proposal. Prerequisite: EVSC 5020. Grade: P/NP.

3 credits

EVSC 6102 RESEARCH METHODS APPLIED TO ENVIRONMENTAL SCIENCES II

Continuation of the discussion of the use of the scientific method and technology in the search for scientific information, analysis of data related to the application of research to environmental sciences. Continuation of the development of a research study related to environmental sciences. In this course students create their thesis committee, complete their thesis proposal and defend it before their thesis committee. Prerequisite: EVSC 6101. Grade: P/NP.

3 credits

EVSC 699_ THESIS

A scientific investigative study that adds to scientific knowledge in a field of study under the supervision of a thesis committee. Students must defend their thesis. Students will register as many times as necessary until they finish their research study. Prerequisite: EVSC 6102. Grade: P/NP.

3 credits

Courses in Finance (FINA)

FINA 6310 INTERNATIONAL FINANCIAL ADMINISTRATION

Analysis of advanced concepts in managerial finance in international commerce from a managerial and corporative perspective. Examples of ethical and moral principles when administering financial resources. Comprehensive analysis of the international financial environment, exchange rates, risk management in international investments, financial institutions, policies and problems. Review of the different capital structures in an international environment.

3 credits

FINA 6420 INTERNATIONAL FINANCIAL MARKETS

Discussion of the operation of capital markets and money, cash flow accounts, risk, nature and structure of interest rates in global markets. Analysis of financial intermediaries from an international perspective, the role of multinational companies and the international bank. Formulation of the economic reasons for the growth of International Financial Markets and the regulatory problems in the International Bank.

3 credits

FINA 6430 INTERNATIONAL ANALYSIS OF INVESTMENTS PORTFOLIO

Analysis of the main indices of international capital, the emergent markets, risk management in the exchange rates and the detailed study of the concept of diversification in international investments. Comparison of multinational corporate shares and the evaluation of local and foreign profits, the anticipated yields and the risk in the investment portfolio in international markets.

3 credits

Courses in Fine Arts (ARTS)

ARTS 5135 ART AND PUBLIC POLICY

Research and analysis of philosophical and political affairs that influence the relationship between the arts and government.

3 credits

ARTS 5140 PHILOSOPHY OF ART

Study and analysis of the principal trends in the philosophy of art and their influence upon this medium. Review of these trends within the context of Puerto Rican art: past, present and future.

3 credits

ARTS 5980 HISTORY OF PUERTO RICAN ART

Analysis of artistic evolution in Puerto Rican from pre-Columbian times to the present. Study of themes, styles and iconography and the influence of the different schools of universal art on Puerto Rican art.

3 credits

ARTS 6010 HISTORY OF ANCIENT ART

The history of art from the second century BC to the second century AD. Emphasis on the study of Egypt, and the Near East and the Aegean, Greek Etruscan and Roman arts.

3 credits

ARTS 6020 HISTORY OF MEDIEVAL ART

The history of art from the beginning of the Christian era. Includes the Byzantine, early Medieval, Romanesque and Gothic periods.

3 credits

ARTS 6030 HISTORY OF RENAISSANCE AND BAROQUE ART

The history of art of the Renaissance and Baroque periods. Emphasis on the Renaissance, high Renaissance, mannerism, Baroque periods and the eighteenth century, their manifestations in the Fine Arts and in European and American architecture.

3 credits

ARTS 6040 HISTORY OF MODERN ART

The history of modern art and the principal movements of the nineteenth and twentieth centuries. Analysis of these periods and their influence on western art.

3 credits

ARTS 6050 HISTORY OF ORIENTAL ART

The principal movements of oriental art: its particularities and influence on universal art.

3 credits

ARTS 6060 HISTORY OF PRE-COLUMBIAN ART

Overview of art in Latin America from the prehistoric period to the discovery of America. Analysis of the different indigenous cultures, their iconography and styles.

3 credits

ARTS 6070 HISTORY OF LATIN AMERICAN ART

The principal art movements in Latin America, the artists, and their social, political and historical context. Analysis of the development of contemporary Latin American art in its regional and universal context.

3 credits

ARTS 6080 HISTORY OF CONTEMPORARY PUERTO RICAN ART

The styles and trends in Puerto Rican art with special attention to the period of the 1950's to the present. The development of printmaking, the influence of the socioeconomic and political changes on Puerto Rican esthetics and the development of the arts.

3 credits

ARTS 6(111-115) ADVANCED CERAMICS I

Application of basic technical principles of ceramics in creative work. Analysis of construction by hand and by lathe and their possibilities as plastic processes. Introduction to the use of computerized programs for the calculation and formulation of clay and varnish formulas.

2-6 credits

ARTS 6(121-125) ADVANCED CERAMICS II

Exploration and research of specific problems of this medium. Statement and analysis of complex technical construction problems.

2-6 credits

ARTS 6(131-135) ADVANCED CERAMICS III

Experimentation in non-traditional techniques in this medium. Exploration with the use of mixed materials and techniques in the realization of artistic work.

2-6 credits

ARTS 6(141-145) ADVANCED CERAMICS IV

Study, technical and stylistic analyses of contemporary artistic works and their plastic possibilities.

2-6 credits

ARTS 6(211-215) ADVANCED PRINTMAKING I

Application of printmaking principles and techniques in creative work. Analysis of printmaking techniques, stencils, lithography and relief and their possibilities in the plastic process. Introduction to the use of the computer for the solution of graphic design problems.

2-6 credits

ARTS 6(221-225) ADVANCED PRINTMAKING II

Exploration and investigation of specific problems of this medium. Statement and analysis of technical problems of complex printings. Management and manipulation of images in the computer for the production of positives and final works.

2-6 credits

ARTS 6(231-235) ADVANCED PRINTMAKING III

Experimentation in non-traditional techniques in this medium. Exploration in the use of mixed materials and techniques. Management and the appropriate and safe use of materials and equipment in the accomplishment of printed works.

2-6 credits

ARTS 6(241-245) ADVANCED PRINTMAKING IV

Study, technical and stylistic analyses of contemporary artistic works and their application in printmaking.

2-6 credits

ARTS 6(311-315) ADVANCED PAINTING I

Application of principles and techniques of painting in creative works. Discussion and analysis of techniques of painting, oil, acrylics and others, and their possibilities in the production of pictorial works.

2-6 credits

ARTS 6(321-325) ADVANCED PAINTING II

Exploration and investigation of specific problems of this medium. Formal statement and analysis of technical problems in achieving pictorial pieces.

2-6 credits

ARTS 6(331-335) ADVANCED PAINTING III

Experimentation in non-traditional techniques in this medium. Exploration in the use of mixed materials and techniques. Management and appropriate use of materials in the creation of pieces.

2-6 credits

ARTS 6(341-345) ADVANCED PAINTING IV

Study, technical and stylistic analyses of contemporary artistic works and their application to pictorial pieces.

2-6 credits

ARTS 6(411-415) ADVANCED DRAWING I

Application of principles and techniques of drawing in creative works. Analysis of plastic qualities of drawing techniques: abrasive and humid mediums.

2-6 credits

ARTS 6(421-425) ADVANCED DRAWING II

Exploration and investigation of specific problems of this medium. Formal statement and analysis of technical problems in performing artistic drawings.

2-6 credits

ARTS 6(431-435) ADVANCED DRAWING III

Experimentation in nontraditional techniques in this medium. Exploration in the use of materials and mixed techniques.

2-6 credits

ARTS 6(441-445) ADVANCED DRAWING IV

Study, technical and stylistic analyses of contemporary artistic works and their application to drawing of artistic pieces.

2-6 credits

ARTS 6(511-515) ADVANCED SCULPTURE I

Application of principles and techniques of sculpturing in creative works. Analysis of sculpturing techniques: techniques of subtraction and addition of materials and their possibilities as a plastic process.

2-6 credits

ARTS 6(521-525) ADVANCED SCULPTURE II

Exploration and investigation of specific problems of this medium. Formal statement and analysis of technical problems of complex structures. Management and appropriate and safe use of materials and equipment in the construction of sculptured pieces.

2-6 credits

ARTS 6(531-535) ADVANCED SCULPTURE III

Experimentation in nontraditional techniques in this medium. Exploration in the use of materials and mixed techniques in the creation of interior and exterior sculptures.

2-6 credits

ARTS 6(541-545) ADVANCED SCULPTURE IV

Study, technical and stylistic analyses of contemporary artistic works and their application to sculptural pieces.

2-6 credits

ARTS 6(611-615) ADVANCED PHOTOGRAPHY I

Application of principles, techniques and chemical processes of black and white photography in creative work.

2-6 credits

ARTS 6(621-625) ADVANCED PHOTOGRAPHY II

Exploration and investigation in specific problems of color photography and its possibilities as a creative process. Management and use of specialized chemicals and equipment to obtain photographic work in color.

2-6 credits

ARTS 6(631-635) ADVANCED PHOTOGRAPHY III

Experimentation in nontraditional techniques in this medium. Exploration in the use of materials, mixed techniques and technology to obtain photographic images. Adequate use of materials utilized in conservation of photographs. Production of photographic works of greater size for publication and photographic documentation.

2-6 credits

ARTS 6(641-645) ADVANCED PHOTOGRAPHY IV

Study, technical and stylistic analyses of contemporary artistic works and their application to photography.

2-6 credits

ARTS 6940 SEMINAR IN ART ADMINISTRATION

Topics related to the administration and supervision of organizations and/or facilities related to the arts. Emphasis on areas such as preparation and administration of budgets, collections, inventories and those areas particular to the infrastructure of physical facilities.

3 credits

ARTS 6944 SEMINAR IN MUSEOLOGY

Theoretical and practical study of the work, organization and operation of museums. Experience supervised by a university professor in a museum or similar institution.

3 credits

ARTS 6954 SEMINAR IN GALLERY ADMINISTRATION

Theoretical and practical study of the work, organization and operation of an art gallery. Experience supervised by a university professor in an art gallery or institution with similar functions.

3 credits

ARTS 6964 SEMINAR: PRACTICE, THEORY, AND CRITIQUE OF ART

Study and analysis of the theories, trends and critiques of art with emphasis on contemporary works in Puerto Rico and abroad. Identification and analysis of controversial aspects of production and the role of an artistic critic.

3 credits

ARTS 6971 CONCEPT AND THEME IN THE PLASTIC ARTS PROPOSAL

Evaluation of the conceptual aspects of plastic work with emphasis on one's own artistic work. Includes visual planning, the image and forms.

1 credit

ARTS 6972 DOCUMENTATION AND RESEARCH IN THE PLASTIC ARTS PROPOSAL

Assessment of techniques and procedures of thematic research for the strengthening of the conceptual aspects in one's own work. Prerequisite: ARTS 6971.

1 credit

ARTS 6973 SPECIAL PROBLEMS III

Analysis of the historical, ethical and philosophical background influencing new artistic trends. Readings, discussions and examination of contemporary art issues.

3 credits

ARTS 6974 CONCEPT AND COMPOSITION IN THE ARTISTIC PROPOSAL

Consideration of the artistic concept in its dimension of the verbal and written language. Includes the accomplishment and presentation of works directed to integrate the skills developed in the seminars of the concept and research. Prerequisite: ARTS 6972.

1 credit

ARTS 6995 CREATIVE PROJECT

Work, discussion and realization of a creative project as a substitution for the written thesis. This course will conclude with the presentation of an exhibition of the art pieces in the gallery of the University or in another suitable public area. Prerequisites: Permission of the advisor and the completion of the specialty requirements. Grade: P/NP.

6 credits

ARTS 6996 CREATIVE PROJECT I

Development of a proposal of a Creative Project of your artistic work. Requires authorization of the adviser and having completed the foundations and specialty requirements. Grade: P/NP.

3 credits

ARTS 6997 CREATIVE PROJECT II_

Presentation of an exhibition of the work in a selected scenario. Requires authorization of the adviser and having completed the foundations requirements in plastic arts and the specialty. This course does not allow the grade of incomplete. Prerequisite: ARTS 6996_. Grade: P/NP.

3 credits

Courses in Health and Physical Education (HPER)

HPER 5000 SELECTED BIBLIOGRAPHY IN PHYSICAL EDUCATION

Analysis of fundamental topics in the physical education field using current techniques and research methods. Learning experiences in the traditional classroom and the virtual learning modalities are integrated. Requires the development of a research project or topic related to the sub specialization area.

3 credits

HPER 5010 PHILOSOPHY OF PHYSICAL EDUCATION

Philosophies of physical education through various ages. Modern philosophies of physical education in implementing Puerto Rico's philosophy of education. Prerequisite for all other graduate courses in health and physical education.

3 credits

HPER 5020 PROBLEMS AND ISSUES IN PHYSICAL EDUCATION

Study of the problems and issues that physical education faces today - facilities, equipment, professional preparation, philosophy, objectives, budget and supervision. Identification and discussion of controversial issues. Prerequisite: HPER 5010.

3 credits

HPER 5030 CONSTRUCTION AND MAINTENANCE OF PHYSICAL EDUCATION FACILITIES

Principles, design, planning; and construction of physical education and recreational facilities with emphasis on tropical areas, both indoor and out. Maintenance problems identified and discussed. Prerequisite: HPER 5010.

3 credits

HPER 5040 CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION

Integration of the principles and practices in the development of curriculum in physical education at all levels. Analysis of applicable approaches, models and designs of curricular development in physical education.

3 credits

HPER 5050 EVALUATION, ASSESSMENT AND MEASUREMENT IN PHYSICAL EDUCATION

Application of the concepts and techniques of evaluation, assessment and measurement in physical education. Analysis of the processes of planning, preparation, administration, correction and interpretation of evaluation instruments in relation to the goals and objectives of the physical education program. Use of statistical measurements in the interpretation of results. Includes practical experience and time in computer laboratories.

3 credits

HPER 5070 MODELS AND STYLES OF TEACHING PHYSICAL EDUCATION

Discussion of approaches in the creation of learning environments appropriate for students and the educational objectives. Analysis of the fundamental principles of teaching styles applied to the physical education discipline. Includes experimentation with the styles.

3 credits

HPER 5300 SPORTS PSYCHOLOGY

Analysis of emotional and psychological problems related to physical activity and sports. Discussion of research related to motivation, attitudes and emotional problems that form part of sports performance. Application of intervention strategies and technological modalities to modify behavior.

3 credits

HPER 6010 SUPERVISION IN PHYSICAL EDUCATION

Analysis of models, systems, modalities, approaches and instrumentation for the development of supervision in the educational environment. Implementation of supervision styles in a cycle of support visits to teachers. Integration of technology in the supervision processes.

3 credits

HPER 6020 RECREATION IN PUERTO RICO

History, principles, objectives, programs, leadership facilities and equipment, finances and evaluation of public and private recreation in Puerto Rico. The future of recreation. Prerequisite: HPER 5010.

3 credits

HPER 6030 PREVENTION AND REHABILITATION OF ATHLETIC INJURIES

Analysis of the fundamental principles for the prevention, treatment and rehabilitation of muscular skeletal injuries associated with the practice of physical activity, exercise and sports. Emphasis on the epidemiology of the injuries and patophysiology, types of injuries of the trunk and the upper and lower extremities. Discussion of the basic concepts in the rehabilitation of injuries, including the role of physical therapy and athletic training in this process. Requires passing training in Cardiovascular Resuscitation.

3 credits

HPER 6040 SOCIOLOGY OF PHYSICAL ACTIVITY AND SPORTS

Sports and physical activity as a social institution and how this affects the dynamics of other social institutions. Prerequisite: HPER 5010.

3 credits

HPER 6070 ADAPTED PHYSICAL EDUCATION

Adaptations of physical education with emphasis on individualized perceptual motor skills. Organization and management of physical education and recreational programs for mentally and/or physically handicapped individuals. Prerequisite: HPER 5010.

3 credits

HPER 6100 TRAINING THEORY AND METHODOLOGY

Application of advanced principles of training to improve the athlete's performance. Discussion of biomedical, psychological, social, nutritional and physical aspects of the trained person. Includes development of force, flexibility, speed and other physical aspects. Analysis of factors for technical preparation and other aspects of individual and team training that benefit the future trainer.

3 credits

HPER 6110 PHYSIOLOGY OF EXERCISE

Consideration of the effect of physical activity, sports and vigorous exercise on the functions of the human body. Critical analysis of the results of scientific research in the responses and adaptations of bioenergetics, neuromuscular, pulmonary, circulatory and endocrine functions as a result of physical activity, exercise and sports training. Discussion of the different variables that affect physical and sports performance. Includes practical experience.

3 credits

HPER 6220 ANATOMY AND KINESIOLOGY

Study of muscles, tendons, ligaments and bones and their function in human movement. Includes the biomechanical aspects of movement. Includes practical experience. Prerequisite: HPER 5010.

3 credits

HPER 6330 PREVENTION AND REHABILITATION OF CARDIOVASCULAR PROBLEMS

Instruments and methods necessary for detecting cardiac abnormalities through the use of the electrocardiogram (EKG) and other laboratory equipment. Prescription of the appropriate amount of exercise in rehabilitation programs. Includes practical experience. Prerequisite: HPER 5010.

3 credits

HPER 6440 MOTOR LEARNING

Analysis of the phenomenon of human movement in the scenario of physical activity and the areas that include motor conduct. Discussion of the different theoretical perspectives explaining learning and motor performance. Application of instruments, techniques and strategies to maximize motor learning.

3 credits

HPER 6550 HEALTH, NUTRITION AND PHYSICAL WELL-BEING

Preventive techniques for the most common health problems. Includes procedures, nutritional evaluation, special diets and prescription of exercise. Practical experience in the design and application of sports medicine programs. Prerequisite: HPER 5010.

3 credits

HPER 6660 BIOMECHANICS

Skills in handling laboratory instruments used in the mechanical analysis of human movement, especially in the area of physical education and sports. Application of physical laws and mathematical principles to interpret displacement, speed and direction. Computer use for cinematographic analysis. Includes laboratory experience. Prerequisites: HPER 5010, 6220.

3 credits

HPER 6910 PRACTICUM

Practical experience under the supervision of a faculty member. In this practice, students will develop competencies related to their specialization. Students may be assigned to education or commercial institutions, clinics, laboratories or agencies that offer services related to physical education and related fields.

3 credits

HPER 6970, 6973 SEMINAR

Students are to assist coordinators of physical education or recreation leaders in various municipalities. This assistantship serves as laboratory experience in observing and evaluating the various phases of the Program. Observations and evaluations to be discussed during the Seminar.

1. Students are assigned to visit recreational resources in various parts of the Island and required to explore areas that could be developed for recreational purposes and to study present recreational facilities that could be improved and expanded.
2. Students may select a research project in an area of individual need and interest. The project may be related to a problem or a situation observed during their visits to schools or recreation areas.
3. Students who have not had any experience in teaching or recreation leadership are required to spend from one-third to one-half of their time in each course in teaching or working as recreation leaders and the rest of the time in assisting in various programs such as intramural, interscholastic competition, field trip and summer camps. Prerequisite: HPER 5010.

3 credits per course

Courses in History (HIST)**HIST 5000 HISTORY OF THE ABORIGINAL CULTURES OF THE AMERICAS**

Historical study of the human presence in the Americas. This course will cover the different ethnic groups, their adaptation to the environment, social organization, material culture, geographic distribution and outside influences from the humanistic viewpoint using available documentation for reference.

3 credits

HIST 5005 HISTORY OF PUERTO RICO 1800 - 1898

Study of the changes that occurred in the politics, economy, and society of 19th century Puerto Rico. This course will study the main events that brought changes in the political, social and economic life of the island. Special attention will be given to the Passbook Law, the Royal Economic Society of Friends of the Nation, the Lares Rebellion, the abolition of slavery, and the rise of political parties.

3 credits

HIST 5010 INTERNATIONAL RELATIONS BETWEEN THE UNITED STATES AND PUERTO RICO, 19TH. - 21ST. CENTURIES

An analysis of the economic and political relations between the United States and Puerto Rico from the 19th century to the present. Special attention will be given to national and global commercial agreements.

3 credits

HIST 5015 MEDIEVAL INSTITUTIONS OF THE AMERICAS

Using a comparative point of view this course examines the institutions of the Late Middle Ages that were transferred to America. Study of all fundamental institutions of the era.

3 credits

HIST 5020 SLAVERY IN THE AMERICAS

A study of the causes and consequences of slavery in the Americas and the different living conditions slaves experienced. This course provides the opportunity to study and analyze the reasons and causes for slavery in America. It will analyze the slave trade and the economic and spiritual aspects of the institution of slavery.

3 credits

HIST 6000 COLONIZATION, SOCIETY AND CULTURE OF THE SPANISH ANTILLES 16TH – 18TH CENTURIES

Analysis of colonial life comparing Cuba, Hispaniola and Puerto Rico from the beginning of Spanish colonization. The study will be placed in the context of the political, administrative, and institutional organization of the Spanish Empire. This course examines, from a critical point of view, the settlement and distribution of the Spanish territories in the 16th - 18th centuries. The study will focus on Puerto Rico but will make comparisons with the other Antilles.

3 credits

HIST 6005 PUERTO RICAN HISTORIOGRAPHY

Analysis of the development of Puerto Rican historical writing from 1508 to the present. The course will be divided into two parts: 1) writers of chronicles and 2) historians.

3 credits

HIST 6010 METHODOLOGIES FOR HISTORICAL RESEARCH

Study of methods in developing a research project in history. Discussion of specifics in how to carry out research.

3 credits

HIST 6020 HISTORIOGRAPHY OF THE AMERICAS

Critical analysis of historical writings of the Americas from the 15th century to the present. Both chroniclers and historians will be studied.

3 credits

HIST 6904 ANALYSIS AND DEVELOPMENT OF HISTORICAL THOUGHT I

Study of the most outstanding problems of history from antiquity to the Middle Ages. Emphasis on the development of methods, techniques and approaches used by historians, as well as the relation of these processes to the formation of historical thought. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of History.

3 credits

HIST 6905 ANALYSIS AND DEVELOPMENT OF HISTORICAL THOUGHT II

Study of the most outstanding problems of history from the Middle Ages to the present. Emphasis on the development of methods, techniques and approaches used by historians, as well as the relation of these processes to the formation of historical thought. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of History.

3 credits

HIST 6906 HISTORICAL CONTEXT OF THE WESTERN WORLD

Analysis and interpretation of historical development of the Western World through the study of different historiographical sources. Emphasis on the most significant institutions, movements and trends of a social, political, economic and cultural nature that have contributed to the evolution of the present day world. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of History.

3 credits

HIST 6907 HISTORICAL CONTEXT OF CONTEMPORARY PUERTO RICO

Analysis and interpretation of the historical development of contemporary Puerto Rico. Emphasis on the most significant economic and social problems within the framework of the political context of the twentieth century. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of History.

3 credits

HIST 6908 HISTORICAL CONTEXT OF THE UNITED STATES

Analysis and interpretation s of economic, social, political and cultural development of the United States through the study of historical document and historiographic sources. Emphasis on the impact of the United States as a great power in its relation with the rest of the world. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of History.

3 credits

HIST 6909 HISTORICAL CONTEXT OF LATIN AMERICA

Comparative analysis of the historical processes in the different Latin America countries, including Brazil. Study of the construction and development of the Latin American nations since the wars of independence to the present. Emphasis on the unity, diversity and development of Latin American societies. Course designed for students in the Master of Education in Curriculum and Teaching of History.

3 credits

HIST 6990 THESIS

Design, planning and development of a research project related to the history of the Americas. A variety of methodologies in historical research will be used. The student may register as many times as necessary in this course to complete the thesis. Prerequisite: permission of the department chairman or the academic advisor. Grade: P/NP.

3 credits

HIST 7000 POPULAR CULTURE AND NATIONALISM IN LATIN AMERICA

This course examines race, class and ethnicity in Latin America and how they have influenced national identity. Specific case studies will include Brazil, Cuba and Peru and their cultural contribution to the rest of the Americas in music, the arts and literature,

3 credits

HIST 7005 ISLAMIC SOCIETIES IN THE 20TH CENTURY

Analysis of the religious, ethnic, and social institutions and their impact on government. Study of how ethnic groups, social classes, political systems and religious beliefs have influenced the history of the Americas.

3 credits

HIST 7010 HERITAGE OF IMPERIAL RUSSIA AND THE SOVIET UNION

Economic, social, political, and cultural changes experienced by the peoples of the territories included in Imperial Russia and the Soviet Union from 1800 to the present. Study of the historical changes experienced by Russia from the 19th century to the present and the region's economic, political and cultural relations with America.

3 credits

HIST 7015 THE UNITED STATES AND GLOBALIZATION

A study of the foreign policy of the United States in relation to globalization. Discussion of the European experience with globalization and the US interest in the developing markets of Central and South America and the Caribbean.

3 credits

HIST 8970 HISTORICAL RESEARCH METHODOLOGY

Application of research and writing skills needed to prepare a historical research project. The student will apply and integrate knowledge acquired from primary and secondary historical sources. Requires having completed 24 specialization credits.

3 credits

HIST 8980 THE DOCTORAL DISSERTATION PROPOSAL

Planning, design, preparation and development of a research proposal for the doctoral dissertation. The student may register as many times as necessary for the completion of the research proposal. Prerequisite: HIST 8970. Grade: P/NP.

3 credits

HIST 8990 DISSERTATION

Preparation, presentation and defense of the doctoral dissertation. This course completes the work for the degree in Doctors in Philosophy in History. The student may register as many times as necessary for the completion of the dissertation. Prerequisite: HIST 8980. Grade: P/DP.

3 credits

Courses in Human Resources (HURS)**HURS 7000 HUMAN RESOURCES MANAGEMENT**

Critical analysis of the principles and practices in recruitment, selection, development, compensation and effective use in human resources in modern business. Human resources planning in business. Study of management requirements, change in private and non-profit organizations.

3 credits

HURS 8010 COMPARATIVE ADMINISTRATION

Analysis of cultural norms and values in different periods, particularly in Latin America and the Caribbean. Evaluation of the implications of cultural differences in managerial decision making. Analysis of critical factors in the formulation of corporate strategy in different countries.

3 credits

HURS 8020 LABOR LEGISLATION

Critical examination of current and proposed legislation, including the federal and Puerto Rican labor laws.

3 credits

HURS 8040 INITIATION OF COOPERATION BETWEEN MANAGEMENT AND WORKERS

Review of theories, principles and concepts on which initiatives are established such as Quality Work Life (QWL), Quality Circles (QC), and the Employees Shared Ownership Policy (ESOP), among others, in union and non-union environments.

3 credits

HURS 8050 LABOR NEGOTIATIONS

Analysis of the function of the negotiator in labor disputes with labor relations system. Evaluation of bargaining agencies and negotiation in the public and private sector.

3 credits

HURS 8060 HIGH-TECHNOLOGY MANAGEMENT

Critical analysis of the existing tools to implement and use high technology to ensure high profit in long term investment, thus achieving a competitive advantage.

3 credits

HURS 8070 HUMAN RESOURCES PLANNING, RECRUITMENT AND SELECTION

Analysis of the concepts and techniques of human resources planning, recruitment and selection. Review of the scientific, legal and administrative aspects related to planning, recruitment and selection of human resources according to the organization's needs.

3 credits

HURS 8075 COMPENSATION ADMINISTRATION

Critical analysis of the managerial aspects of motivation and compensation principles. Comparison of the practices to administer, operate, research and design an effective compensation program. Includes research of selected topics in compensation administration.

3 credits

HURS 8085 HUMAN RESOURCES DEVELOPMENT

Critical analysis of the human resource development processes identified in theory, research, and the learning experiences of employees, as developed by the organization.

3 credits

HURS 8090 MANAGEMENT OF CHANGE

Analysis of the requirements for generating and administering change in organizations. Development of research on subjects related to change management. Critical analysis of the theory of decisions and strategies in a global environment that is in continuous change.

3 credits

HURS 8100 DISCRIMINATION IN EMPLOYMENT

Analysis of Title VII of the Federal Civil Rights Law as well as other similar local and federal statutes related to employment discrimination. Study of the theories of discrimination and the available procedures and remedies under said laws. Examination of the principles of legal interpretation and research methods in the area. Includes research of topics related to discrimination in employment.

3 credits

HURS 8946 SEMINAR OF SPECIAL TOPICS IN HUMAN RESOURCES

Review of the current problems related to the field of human resources and the management of problems confronted on a daily basis by company management.

3 credits

Courses in International Business (INBS)**INBS 5000 INTERCULTURAL NEGOTIATION AND COMMUNICATION IN INTERNATIONAL BUSINESS**

Analysis of the importance of communication in the different cultures and its influence in business relations; the development and application of communication strategies in international and multicultural business relations; the study of the implications of these international business relations.

3 credits

INBS 5010 APPLIED TECHNOLOGY TO INTERNATIONAL BUSINESS

Concepts and techniques applied to the operations, communication mediums and practice in international businesses, as well as the wide application of computer resources and an introduction of other emerging technologies. Requires the use of the computer lab.

3 credits

INBS 5020 INTERNATIONAL MACROECONOMY

The macroeconomic theory and policy in open economies and the adjustment problems according to the classic, neoclassic, Keynesianism and post-Keynesianism approaches. Emphasis on the macroeconomic policy on open economies under flexible and fixed exchange rates. Special attention to the payment balance (theory and accounting), to capital flow, exchange rates under fixed and flexible systems; the relation between flexible exchange rates, money and prices; the problem of world debt and the complexities that it presents in the international monetary system.

3 credits

INBS 6000 INTERNATIONAL BUSINESS MANAGEMENT

Ample study and exploration of problems and essential elements in the development and management of international business. Overview of the activities that take place in a globalized, dynamic, complex, and highly competitive environment.

3 credits

INBS 6010 INTERNATIONAL BUSINESS LAW

Basic legal aspects of international business and finance. The laws and regulations that rule the functions and operation of business at an international level.

3 credits

INBS 6030 INTERNATIONAL BUSINESS EXCHANGE: THEORY AND POLICY

Classic models and theory as well as modern alternative approaches. Analysis of aspects such as: international commerce and exchange, economic growth, business policies, and strategies for competitiveness. The theory of related decisions and strategies, in a globalized environment and of constant change.

3 credits

INBS 6210 RESEARCH METHODOLOGY IN INTERNATIONAL BUSINESS

Methodology and research techniques, including the exploration of problems when carrying out international research, such as: availability of data, trust and compatibility; sources of information; and language problems, distance, and perceptions. Critical analysis and evaluation of research already done in the international field and of the available statistics.

3 credits

INBS 6910 INTERNSHIP

Professional experiences integrated to working scenarios in a business with international projection. This will be done under the supervision of a faculty member and it will consist of a minimum of eight (8) hours a week for a minimum of 120 per semester. Prerequisite: Have completed a minimum of 36 credits, 24 of which must be of the specialization, with a grade point average of no less than 3.0. Grade: P/NP.

3 credits

INBS 6970 SEMINAR: BUSINESS ENVIRONMENT AND ADMINISTRATIVE PRACTICES OF THE CARIBBEAN AND LATIN AMERICA

Analysis of the most significant geographical, political, and economical aspects of the Caribbean and Latin American regions and their application to pertinent administrative functions. Study of the current international treaties.

3 credits

INBS 6990 PROJECT IN CONSULTING/RESEARCH IN BUSINESS

Execution of a research or consulting work for an established business or for one that will be established. Requires the use of the computer lab.

3 credits

Courses in International Business Administration (IBAD)

IBAD 5100 RESEARCH IN THE INTERNATIONAL ENVIRONMENT

Presentation of the importance of the research method and its significance in developing international businesses successfully. Review of concepts of sampling, measurement, reliability, validity, data collection, descriptive statistics and inferential statistics. Identification of the methods of experimental and non-experimental research, research design, writing of a research proposal, qualitative, quantitative and historical research. Design of the search for information at the international level.

3 credits

IBAD 5110 STRATEGIC INTERNATIONAL ADMINISTRATION

Discussion of the challenges and opportunities faced by the manager in an international business environment. Study of multinational companies, markets in North America, Europe and Asia, international policies, economic integration, culture, business ethics, international exchange and finances. Review of strategic global planning, organizational, production and marketing strategies. Demonstration of concepts of political risk strategies, and negotiations, corporate and national competitiveness.

3 credits

IBAD 5210 INFORMATION SYSTEMS AND ELECTRONIC BUSINESS

Presentation of Information Systems in companies with global presence. Discussion of planning elements, analysis, design, development, implementation, decision making and maintenance of information systems and local and corporate networks. Analysis of E-Commerce, E-Business, E-Money and M-Commerce systems. Contrast of ethical and, legal principles and security.

3 credits

IBAD 5320 GLOBAL ENVIRONMENT OF BUSINESS

Comparison of local and foreign perspectives that form the context for business in a diverse and interdependent world. Application of the concepts of diversity in socio-cultural, ethical, political, legal, regulatory and national environment aspects, and the impact of demographic diversity in organizations. Review of markets, economies and consumer behavior in different countries.

3 credits

IBAD 5410 INTERNATIONAL DISTRIBUTION

Study of the concepts of foreign freight transportation, international transportation and freight storage. Analysis of the documentation related to international distribution and the different distribution and export channels.

3 credits

IBAD 6971 SPECIAL PROJECT IN INTERNATIONAL BUSINESS ADMINISTRATION

Discussion of planning, strategies and development of a special project in the field of the specialization selected in International Business Administration. Analysis of ideas, concepts, situations and the main problems related to international business. Evaluation of experiences in the specialization area where students will integrate and implement theoretical foundations acquired throughout their academic training. Development of a functional project or a research project. Oral and written presentation of the research work. This project must be focused on the international level. Prerequisite: have passed all the other core and specialization courses.

3 credits

Courses in Interregional and International Business (INBU)

INBU 7100 INTERNATIONAL AND GLOBAL BUSINESSES POLICY AND STRATEGY

Formulation of the company's policy and strategy in an international context. Simulations of intercultural negotiations. Includes the development of an international strategy for a local company.

3 credits

INBU 7120 GLOBAL MARKETING

Analysis of marketing and the global and international implications with emphasis on Latin American and Caribbean companies. Review of marketing theory and practice across national and global borders, marketing and marketing research within different foreign environments. Analysis of the external and internal variables in the international environment and the development of marketing strategies by international companies.

3 credits

INBU 7130 MULTINATIONAL AND GLOBAL MANAGEMENT AND STRATEGY

Formulation of multinational companies' strategies and policy. Critical analysis of strategic managerial alternatives within the global context of business operations in a political, economic and cultural environment. Simulation of intercultural negotiations. Includes the development of international strategy for local companies.

3 credits

INBU 7140 COMMUNICATION AND INTERCULTURAL NEGOTIATION IN INTERNATIONAL BUSINESS

Analysis of the impact of communication on different cultures for commercial purposes. Application of communication skills in multicultural commercial scenarios. Comparison of the implications of intercultural negotiations in domestic and international multicultural companies.

3 credits

INBU 8170 INTERNATIONAL FINANCE

Analysis of the international financial environment. Review of financial risk inherent to international businesses. Description of problems when implementing corporate financial principles in other countries and of the financial aspects of the relationship between main and subsidiary company.

3 credits

INBU 8210 THEORY OF INTERNATIONAL BUSINESS

Critical analysis of the classical and modern theories of international business and the implications of business policies derived from the different theories. Consideration of the importance of international business for developing countries and the development of competitiveness strategies. Review of monetary aspects of international commerce, such as the problems and policies of adjustments in the balance of payments.

3 credits

INBU 8946 SEMINAR OF SPECIAL TOPICS IN INTERREGIONAL OR INTERNATIONAL BUSINESS

Review of current problems related with interregional and international business and with the handling of problems confronted daily by company management.

3 credits

Courses in Labor Relations (LARE)**LARE 5001 RESEARCH METHODS IN LABOR RELATIONS**

Analysis and application of research methods and techniques in the field of labor relations. Application of the scientific method in labor problem solving. Review of the quantitative and qualitative methodologies.

3 credits

LARE 5010 COLLECTIVE BARGAINING IN THE PUBLIC AND PRIVATE SECTOR

Theory and techniques of collective bargaining in the public and private sector. Analysis of substantive aspects, collective bargaining procedures, content and administration of contracts and legislation governing labor relations.

3 credits

LARE 5200 LABOR STATISTICS

Application of sampling techniques and the fundamental concepts of descriptive and inferential statistics in the analysis of the factors affecting the development and trends of the labor markets in a global economy.

3 credits

LARE 5300 LABOR ECONOMY

Analysis of the economic problems of the labor market, the population and the labor force in a global economy. Review of the economic aspects of the development of human resources, compensation, income distribution, and related public policies. In addition, the economic effects of labor relations, collective bargaining and labor unions, on wages, employment, the cycle, and economic growth are evaluated.

3 credits

LARE 5400 LABOR LEGISLATION

Review of the local and federal labor laws regulating the labor relations in unionized companies. Emphasis on the constitutional rights of workers to organize themselves in unions of their selection. Evaluation of the mechanisms of the different labor forums that administer the labor laws of Puerto Rico.

3 credits

LARE 5410 HISTORY AND PHILOSOPHY OF LABOR MOVEMENTS

Current theories in labor relations and their principal institutions; history of labor movements in the United States, Puerto Rico and other countries; the development of labor organizations and their strategies over the years.

3 credits

LARE 5420 LABOR RELATIONS IN THE PUBLIC SECTOR

Review of the historical development of labor relations in the public sector. Analysis of the legislation of labor relations and its effect on groups protected by the constitution and its limitations. Evaluation of the situation of the municipalities, public corporations, the central government, and special agencies, within the general framework of labor relations in the United States and other countries.

3 credits

LARE 6300 PROTECTIVE WORK LEGISLATION

Review of the protective laws and social work security applicable in Puerto Rico. Analysis of the rights of exempt and nonexempt workers, the protective laws, and the constitutional rights that protect them. Evaluation of the laws that protect the rights related to employment conditions, such as: leaves, work hours, rest periods, dismissals and other fringe benefits.

3 credits

LARE 6410 COMPARATIVE LABOR RELATIONS

Review of the socioeconomic and legal frameworks regulating labor relations at the international level between several countries or geographic regions. Comparison of labor relations at the international level.

3 credits

LARE 6430 NEW ORGANIZATIONAL WORK PATTERNS

Review of the traditional and nontraditional alternatives for organizing work in private companies as well as in public ones, and their relation with the new personal values of the employees.

3 credits

LARE 6440 MEDIATION, CONCILIATION AND LABOR ARBITRATION

Analysis of the different resources and methods for solving conflicts, such as: mediation, conciliation and arbitration. Review of the historical trajectories, the similarities and differences of those resources and their application for conflict resolution. Evaluation of the jurisdiction of the administrative forums of the states as well as the federal ones, and their results in the solution of labor disputes.

3 credits

LARE 6450 JOB DISCRIMINATION

Analysis of legislation, the constitutional aspects and jurisprudence related to the prohibition of discrimination in work centers. Discussion of the aspects regarding the nature, importance and characteristics of protections against

job discrimination in the public and deprived sectors. Review of the duties, obligations, practices, measures and rights of employers and employees in the prevention and attention given to situations related to job discrimination.

3 credits

LARE 6975 INTEGRATING SEMINAR IN LABOR RELATIONS

Evaluation of complex cases, situations and investigations for the integration of the knowledge that may permit the explanation and display of leadership skills in the labor scenario. Prerequisite: to have approved all the core courses and of the specialization. Grade: P/NP

3 credits

Courses in Library and Information Sciences (LISC)

LISC 5000 LIBRARY FUNDAMENTALS AND INFORMATION SCIENCES

Theoretical and philosophical backgrounds of Library Information Sciences. Purpose, function and services offered by each type of library and documentation and information centers in modern society, especially in the Puerto Rican society. The profession, its terminology, literature, associations and professional education.

3 credits

LISC 5180 COMPUTER APPLICATIONS IN THE LIBRARY

General view of the varied uses of the computer in different library functions. Study of the planning, evaluation and implementation of computerized library systems.

3 credits

LISC 5200 INFORMATION SERVICES AND DOCUMENTATION

Assessment, selection and use of bibliographic reference sources. Includes techniques and information search analyses and studies of reference policies and services. Also included are mechanized systems of documentation and information. Emphasis on the role of the library as an information center.

3 credits

LISC 5250 DOCUMENTATION AND DATABASE FOR THE HUMANITIES

Analysis and evaluation of manual and computerized documentation resources in the humanities. Study of the interaction process in computerized databases in the humanities. Includes supervised practice at the DIALOG service terminals for which an additional fee is charged. Prerequisite: LISC 5180.

1 credit

LISC 5260 DOCUMENTATION AND DATABASE FOR THE BEHAVIORAL SCIENCES

Analysis and evaluation of manual and computerized documentation resources in the Behavioral Sciences. Study of the interaction process in computerized databases in the field of the Behavioral Sciences. Includes supervised practice at DIALOG service terminals for which an additional fee is charged. Prerequisite: LISC 5180.

1 credit

LISC 5270 DOCUMENTATION AND DATA BASE FOR THE NATURAL SCIENCES

Analysis and evaluation of manual and computerized documentation resources in the natural sciences. Study of the interaction process in computerized databases in the natural sciences. Includes supervised practice at DIALOG service terminals for which an additional fee is charged. Prerequisite: LISC 5180.

1 credit

LISC 5300 CATALOGING AND BIBLIOGRAPHIC DESCRIPTIONS

Theory and practice in the techniques of bibliographic description of printed and non-printed materials. Emphasis on the uses of AACR2 (Anglo-American Cataloging Rules 2) and MARC (Machine Readable Cataloging). Analysis of the different types of catalog forms.

3 credits

LISC 5350 SUBJECT CLASSIFICATION AND INDEXING

Different methods used in classification by subject. Theory and methods of establishing subject headings. Principles and practices in indexing.

3 credits

LISC 5370 SPECIAL PROBLEMS IN DESCRIPTIVE CATALOGING

Analysis and development of cataloging technique and norms, and of the description of printed and non-printed materials. Emphasis on the cataloging of special collections such as musical scores, audiovisual materials, microforms, etc. Includes computerized cataloging procedures. Prerequisite: LISC 5350.

3 credits

LISC 5390 THE CONTROL AND HANDLING OF SERIAL PUBLICATIONS

General view of serial publications, their creation, format, handling and use; selection, content and bibliographic control; policies, administration and cooperative programs. Includes magazines, newspapers, yearbooks, society bulletins and serial publications of government agencies.

3 credits

LISC 5450 COLLECTION, ACQUISITION, DEVELOPMENT AND EVALUATION

Study and analysis of the different professional techniques and skills required for the evaluation, selection, acquisition and preservation of printed and non-printed educational resources.

3 credits

LISC 6150 ADMINISTRATION OF SCHOOL LIBRARIES

Detailed study of the school library and of the librarian's role in this environment. Includes and analyzes the educational trends, the role of the librarian in the teaching learning process and in promoting the use of the library.

3 credits

LISC 6160 PUBLIC LIBRARIES

Historical, legal, economic and administrative factors that affect the planning organization and development of public libraries and public library systems. Theoretical and practical concepts related to public libraries as informative, educational, recreational, cultural and social service institutions. Prerequisite: LISC 5000.

3 credits

LISC 6161 LIBRARIES AND SPECIALIZED INFORMATION CENTERS

Various types of libraries, systems of information and related specialized organizations; their historical development, their management, resources, functions and services, problems related to the operation of libraries and information centers that serve particular clients. Prerequisite: LISC 5000.

3 credits

LISC 6250 RESEARCH METHODS APPLIED TO LIBRARY AND INFORMATION SERVICES

Current situation of the library as an institution and of the Library Information Sciences as a discipline. Development of scientific research skills applied to the Library and Information Sciences.

3 credits

LISC 6350 EDUCATIONAL TECHNOLOGY: USE, PRODUCTION AND EVALUATION

General view of the field of educational technology. Emphasis on the evaluation, selection, acquisition and use of commercially produced materials and equipment. Introduction to the techniques of local production. Includes organization and management of non-printed material collections and examines their various forms.

3 credits

LISC 6460 DEVELOPMENT OF COLLECTIONS AND SERVICES FOR CHILDREN, YOUNG PEOPLE AND ADULTS

Historical background of universal children and young people's literature and the study of the sources and guidelines for its evaluation and selection. Analysis of the diversification of both printed and non-printed materials.

Includes the principles of child, youth and adult psychology and their application to library services. Prerequisite: LISC 5450.

3 credits

LISC 6710 SERVICES IN ACADEMIC LIBRARIES AND DOCUMENTATION CENTERS

Trends, innovations, goals, policies and services of the academic library. Administrative theories and processes applied to the library and information and documentation service agencies. Includes administrative relations, coordination, personnel, finances, evaluation, planning, organization, decision-making and other problems.

3 credits

LISC 6750 BIBLIOGRAPHIC INSTRUCTION

Planning and development of programs for the use of library resources. Analysis of specific methodologies and the procedures for their appraisal. Includes the financing, promotion, maintenance and development of programs.

3 credits

LISC 6910 INTERNSHIP IN LIBRARIES

Supervised practice in a library. Students will develop competence and leadership through direct participation in public and technical services, orientation activities and seminars; and preparation of case reports, work plans and research. Admission to internship is requested in writing from the Program Director.

3 credits

Courses in Linguistics (LING)

LING 5200 NEW TRENDS IN LINGUISTICS

Analysis of the theoretical postulates and the work methodology of the main linguistic schools of Europe and the United States beginning with Ferdinand de Saussure.

3 credits

LING 5210 HISTORY OF THE SPANISH LANGUAGE

Historical and analytical study of the Spanish language from Latin to the present with emphasis on the most decisive stages of its development. Phonetic, morphological and lexical comparisons of Spanish with other Romance languages.

3 credits

LING 5240 ADVANCED GRAMMAR

Systematic study of the grammatical structures of the Spanish language in light of new linguistic trends and their application to the teaching of Spanish as the vernacular.

3 credits

LING 5250 LINGUISTICS APPLIED TO THE TEACHING OF SPANISH

Analysis of the theoretical frameworks of current linguistics and their application to the teaching of Spanish as the mother tongue. Discussion of the findings of recent research with special emphasis on studies on Puerto Rican Spanish.

3 credits

Courses in Marketing (MKTG)

MKTG 6410 INTEGRATED COMMUNICATION IN INTERNATIONAL MARKETING

Review of the different tools of the integrated advertisement and marketing blend, consumer satisfaction at the global level and improvement of the company's profits. Distinction between paid advertisements, non-paid publicity, personal sales, promotional sales, sponsorship, direct marketing, public relations and communication using Internet. Analysis of the development of advertisement activities with focus on international marketing using diverse tools.

3 credits

MKTG 6420 STRATEGIC PLANNING OF INTERNATIONAL MARKETING

Identification of the concepts and techniques for planning and selection of marketing strategies for multinational organizations. Application of the fundamentals of managerial marketing in the global environment. Discussion of the use and implementation of strategic planning to develop long-lasting competitive advantages at the local and international levels.

3 credits

MKTG 6430 CONSUMING BEHAVIOR AT THE IN THE INTERNATIONAL LEVEL

Review of the different theories explaining consuming behavior. Study of the cognitive bases and consumers' purchasing behavior, their preferences and decision-making processes. Review of the behavioral concepts as seen through the analysis of how the consumer at the international level acquires and uses information for decision making.

3 credits

MKTG 6440 ELECTRONIC MARKETING

Analysis of the development of new business models that promote the maximization of consumer value and the profits of the multinational company. Application of marketing strategies using electronic tools. Discussion of marketing through Internet, wireless communication, advertising by location, design of Web pages and other innovating technologies.

3 credits

Courses in Mathematics (MATH)**MATH 5100 INTERMEDIATE CALCULUS**

Differential equations, vector fields, growth and degradation, mathematical modeling, L'Hopital's rule, improper integrals, Taylor's power series, convergent radius, multivaried functions, limits and continuance, derivatives and integrals. Integration of vector fields, Green's and Stokes' theorems.

3 credits

MATH 5200 COMPUTATIONAL MATHEMATICS

Solution of problems in the areas of calculus, algebra and geometry, linear algebra and mathematical models, by means of mathematical computer languages. Introduction and computational implementation of several applications such as optimization, areas and volumes, handling of lists, dynamic systems, finance mathematics, and diverse types of graphs and visualization. Introduction to numerical analysis methods and their implementation in computational algebraic languages.

3 credits

MATH 5400 PROBABILITY

Review of permutations, combinations and partitions. The Binomial theorem. Discrete probability. General, conditional and independent probability. Discrete and continuous random variables. Expected value and moment generating functions. United and conditional distributions and conditional expected value. Random variable functions including the method of accumulative distribution function and the transformation method. Order statistics.

3 credits

MATH 5500 ADVANCED DISCRETE MATHEMATICS

Synthesis of the calculation of propositions and the theory of sets, including relations, functions, equivalences and partial orders. Fundamentals and applications of the theory of graphs, digraphs and trees. Introduction to combinatorial analysis. Study of recurrent relations and their applications in computation. Fundamentals of the theory of languages, machines of finite states and automata theory.

3 credits

MATH 5700 FUNDAMENTALS OF ABSTRACT MATHEMATICS

Logic, demonstration methods, theory of sets, permutations and combinations, relations, including equivalence and partial order relations, ordered bodies and their axioms, functions binary operations divisibility, cardinality, the Cantor Theorem. \mathbb{R} topology, open and closed sets and accumulation points.

3 credits

MATH 5800 TOPICS IN ABSTRACT ALGEBRA

Review of cyclic and normal subgroups; the three homomorphism theorems for groups. Prime and maximal ideals. Modules, vector spaces, bases, dimension and linear transformations. Reticules, Boolean algebra and applications.

3 credits

MATH 5900 MATHEMATICAL LOGIC AND APPLICATIONS

Study of syntax and semantics in first order languages. Analysis of the theorems of Completeness, of Löwenheim-Skolem, of Compactness and the limitations of the formal method. Introduction to the theory of computability by means of Turing machines. Analysis of the theory of numbers and recursive functions, including the theorem of Rice and that of Recursion. Introduction to the complexity theory.

3 credits

MATH 6100 INTRODUCTION TO REAL ANALYSIS

Successions and convergence, Cauchy successions, monotonous successions. Limit of a function, limit of a succession, limit of monotonous successions. Uniform continuity, open, closed and compact sets, derivatives, Rolle, Medium Value and L'Hopital Theorems. Riemann integrals, integral functions. Fundamental Theorem of Calculus, Medium Value Theorem and the Change of Variable Theorem. Infinite series convergence and absolute and conditional convergence.

3 credits

MATH 6150 MATHEMATICAL MODELS FOR THE SCIENCES

Analysis of mathematical models of physics, biology, economics and other sciences. Classification of models according to their mathematical base. Approximation, transformation and symmetries of a model. Modeling in computers. Prerequisite: MATH 5100.

3 credits

MATH 6200 GRAPHS AND APPLICATIONS

Analysis of the theory of graphs, their algebraic representation and special types including directed graphs. Analysis of the problems of graphs route, planarity, parity and coloration. Study of trees, special types and applications. Introduction to the theory of matrixes. Prerequisite: MATH 5500.

3 credits

MATH 6300 ACTUARIAL MATHEMATICS AND RISK THEORY

Study of insurance economy, models of individual risk, and survival distributions. Evaluation of insurances and life annuities, the net premiums, the several lives functions and multiple decreasing models. Fundamentals of the evaluation theory of pension plans. Prerequisite: MATH 5400.

3 credits

MATH 6350 MATHEMATICAL METHODS IN RESEARCH

Study of mathematical methods to determine optimal solutions under restrictions of optimization problems of industry and the economy. Topics of linear programming, the simplex method, flows in networks, non-linear programming, dynamic programming, project management and analysis of decisions are dealt with. Prerequisite: MATH 5200.

3 credits

MATH 6400 ADVANCED MATHEMATICAL STATISTICS

Study of classic statistics of a variable and the estimation of parameters. Analysis of linear statistical models and safe predictions. Study of the robust statistics concept. Fundamentals of non-linear statistical models; analysis of

multiple variables and time series. Use of computer programs for statistics and statistical programming languages. Prerequisite: MATH 5400.

3 credits

MATH 6600 ECONOMETRICS AND FINANCE MODELS

Analysis of yields and valuation methods for capital assets. Analysis of multifactor models for inter-temporary balance, options and derivatives, fixed income assets and term assets. Prerequisite: MATH 5100.

3 credits

MATH 6800 CRYPTOGRAPHY

Study of basic cryptographic methods based on properties of numbers and group theory. Introduction to the keys of public encryption and advanced cryptographic techniques based on algebraic geometry. Prerequisites: MATH 5500, 5800.

3 credits

MATH 6810 INFORMATION THEORY AND CODIFICATION

Theory of codification, efficient codification, codification without noise and codification theorems. Introduction and applications of linear codes; codes in finite fields and cyclical codes. Prerequisites: MATH 5500, 5800.

3 credits

MATH 6900 CREATIVE PROJECT

Development of a special project on a problem or application area of the specialization in which students took their elective courses, under the direction of a Program professor. The course requires oral and written presentations. Student will register in this course as often as necessary until finishing their research. Prerequisite: 24 approved credits. Grade: P/NP.

3 credits

MATH 6904 ADVANCED ALGEBRA

Study of the following topics of theory of numbers: whole numbers prime numbers and the fundamental theorem of Arithmetic. Maximum common divisor and minimum common multiple. The algorithm of Euclides. Numerical congruencies. Groups, rings and fields. Real and complex numbers. Polynomials. Vectorial spaces: vector and matrices. Boolean algebra. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Mathematics.

3 credits

MATH 6905 MODERN GEOMETRY

Modern approaches of geometry. Foundations and development of several geometries. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Mathematics.

3 credits

MATH 6906 REAL NUMBER ANALYSIS

Study of the real numbers system; functions and limits; elements of the set theory; numerical successions and series; continuity; derivatives and the integral of Riemann; integral functions, fundamental theorem of calculus, theorems of average value and the change of variables. Infinite convergences series, absolute and conditional convergence. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching in Mathematics.

3 credits

MATH 6907 PROBABILITY AND STATISTICS

Modern approach to probability and statistics. Study of the following topics: sets and probability; random variables and probability distributions. Sampling theory is included; estimation theory, tests of hypothesis and meaning; regression and correlation and analysis of variance. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching in Mathematics.

3 credits

MATH 6908 DISCRETE MATHEMATICS

Study of the following topics: set theory and Venn diagrams. Counting methods: inclusion-exclusion principle, addition and multiplication rules, exchanges and combinations. Relations and functions. Graph theory. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Mathematics.

3 credits

MATH 6909 PROBLEM SOLVING

Evaluation of a variety of strategies and techniques for solving mathematical problems. The problems will emphasize the numbering and operational areas, algebra, geometry, measurement and statistics and probability. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching in Mathematics.

3 credits

MATH 6910 HISTORY OF MATHEMATICS

Historical development of the main ideas in mathematics. Contribution of renowned mathematicians. Analysis of classic mathematicians. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching in Mathematics.

3 credits

MATH 6911 ANALYTICAL GEOMETRY

Study of rectangular coordinates, graphic equations in two and three variables, flat curves of superior order, transformations of coordinates, polar, tangent and normal coordinates, the plane, the straight line and surfaces in space.

3 credits

Courses in Medical Technology (MEDT)**MEDT 5510 MOLECULAR MICROBIOLOGY**

Analysis of the structure, expression and genetic regulation in the prokaryotic and eukaryotic cells. Emphasis on the applications of recombinant DNA technology.

3 credits

MEDT 5520 ADVANCED CLINICAL BIOCHEMISTRY

Analysis of the biosynthesis and metabolism of carbohydrates, lipids and proteins. Application of proteomic methods in the development of clinical research.

3 credits

MEDT 5530 ADVANCED CLINICAL HEMATOLOGY

Study of hemopoiesis and homeostasis. Techniques used in the diagnosis and management of the pathology associated with changes in the morphology of white and red cells. Therapy principles utilized in cases of laboratory test changes. Clinical correlation and consideration of clinical cases.

3 credits

MEDT 5540 ADVANCED CLINICAL IMMUNOHEMATOLOGY

Theory of blood groups and blood banks emphasizing recent advances such as immunology and immunohematology. Techniques used in the identification of immune disorders and in the investigation of pathological conditions.

3 credits

MEDT 5550 CLINICAL LABORATORY ADMINISTRATION

Application of administrative principles to the operational model of the clinical laboratory. Analysis of the functions that distinguish the nature of the administrative process. Emphasis on the knowledge, skills and abilities that the director or supervisor of a clinical laboratory must have.

3 credits

MEDT 6030 ADVANCED PARASITOLOGY

Biology, pathology, epidemiology, diagnosis and control of parasites of the tropics, including helminthes, protozoans, and vector-arthropods.

3 credits

MEDT 6040 IMMUNOTECHNOLOGY

Analysis of the molecular aspects of the immunological system: their applications in research and their uses in the diagnosis and treatment of diseases. Prerequisites: MEDT 5510, 5520.

3 credits

MEDT 6090 MODERN TECHNIQUES IN THE MICROBIOLOGY AND INDUSTRIAL LABORATORY

Methods and materials used in the modern microbiology laboratory developed for diagnosis. Applied microbiology principles such as fermentation, production of antibiotics, sterilization and quality control used in industrial microbiology.

3 credits

MEDT 6100 MOLECULAR ASPECTS IN THE EPIDEMIOLOGY AND DIAGNOSIS OF INFECTIOUS DISEASES

Comparative analysis of the clinical significance between bacteria, fungi and viruses. Emphasis on the molecular aspects that have an effect on the epidemiology, pathogenicity, immunity, laboratory diagnosis, prevention and treatment of the diseases they cause. Prerequisites: MEDT 5510, 5520.

5 credits

MEDT 6111 MOLECULAR TECHNIQUES LABORATORY I: PRINCIPLES OF MOLECULAR GENETICS

Application of the basic concepts of molecular techniques. Emphasis on recombinant DNA technology, systems of expression, protein purification, mutagenesis, and DNA amplification by means of the polymerase chain reaction technique "PCR". Use of bacteria, yeast and animal cells as hosts to clone and express genes. Prerequisites: MEDT 5510, 5520.

3 credits

MEDT 6112 MOLECULAR TECHNIQUES LABORATORY II: APPLICATIONS OF MOLECULAR DIAGNOSIS

Application of the concepts and skills acquired in molecular techniques. Use of the molecular diagnosis methodologies: Western blot, DNA fingerprinting and cell synchronization by flow cytometry. Applications of PCR and Proteomics. Use of the monoclonal antibodies in the laboratory. Prerequisite: MEDT 6111.

3 credits

MEDT 6230 INSTRUMENTATION AND AUTOMATION IN CLINICAL CHEMISTRY

Preparation of samples, applied methods, instrumentation in chemical analysis; absorption, emission, spectroscopy, electrochemical chromatography, use of radioisotopes, and automatic analysis. Methods used to determine the precision and accuracy of clinical laboratory test results.

3 credits

MEDT 6310 SUPERVISION OF HUMAN RESOURCES IN THE CLINICAL LABORATORY

Application of administrative principles, strategies and techniques for an effective supervision in the clinical laboratory environment.

3 credits

MEDT 6320 ADMINISTRATION OF FINANCES IN THE CLINICAL LABORATORY

Analysis of procedures for handling finances in the clinical laboratory. Application of processes for costs analysis in the clinical laboratory.

3 credits

MEDT 6340 QUALITY SYSTEMS IN THE CLINICAL LABORATORY

Integration of theory and practice in quality control procedures applied to the analytical process. Analysis of the concepts, strategies and evaluation procedures of quality assessment to assure the validity of the procedures and results.

3 credits

MEDT 6350 LEGAL ASPECTS IN THE EXERCISE OF MEDICAL TECHNOLOGY

Analysis of the medical-legal risks that the exercise of medical technology entails. Evaluation of health services offered by the medical technologist in harmony with current regulation standards.

3 credits

MEDT 6360 COMPUTERS AND INFORMATION SYSTEMS IN THE CLINICAL LABORATORY

Analysis of the advances in technology in the computer science field and their application to the clinical laboratory. Includes the design, evaluation and the selection of a computerized information system and the requirements governing the handling of the information with this technology.

3 credits

MEDT 6370 BIOSTATISTICS

Statistical analysis of databases. Application of descriptive and comparative statistics to the clinical laboratory and research situations.

3 credits

MEDT 6970 RESEARCH SEMINAR

Application of the methodology for the preparation of research projects and the evaluation of ethical and bioethical aspects related to clinical research.

3 credits

MEDT 6973 BIOINFORMATICS SEMINAR

Analysis of data collected in the laboratory by means of the electronic network and the use of computer programs to facilitate the analysis. Application of the information available in international data banks for research and the molecular diagnosis. To be taken concurrently with MEDT 6111 unless this course was passed previously.

1 credit

MEDT 6975 SEMINAR ON ADMINISTRATION OF THE CLINICAL LABORATORY

Analysis of diverse current topics, such as: investments, economy and public policies related to administrative and operational dynamics of the clinical laboratory. Includes aspects that promote the student's knowledge and the skills to deal with matters that affect the clinical laboratory.

3 credits

MEDT 6991 THESIS I

Application of the research design to the development of clinical projects or basic sciences related to the clinical area that promote the production of knowledge in the discipline and prepare students to move forward in their field of study. Includes the selection of the committee, the design and elaboration of the research proposal and the beginning of research in the research laboratory. Grade: P/NP.

3 credits

MEDT 6992 THESIS II

Application of the research design to the development of clinical projects or basic sciences related to the clinical area that promote the production of knowledge in the discipline and prepare students to move forward in their field of study. Students will register in this course as often as necessary until finishing their research project. Grade: P/NP. Prerequisite: MEDT 6991.

3 credits

Courses in Music (MUSI)**MUSI 5000 COMPENDIUM OF THEORY AND SIGHT READING**

Analysis of theory and harmony concepts for the music teacher and the professional musician. Includes the study of sight reading methods and auditory training and the discussion of techniques pertinent to the teaching -learning of the theory.

2 credits

MUSI 5001, 5002, 5003, 5004 ENSEMBLE

Study and preparation of a written repertoire for a diverse combination of instruments and/or voices. Requires 30 hours of practice during the academic term.

1 credit per course

MUSI 5010 COMPENDIUM OF HISTORY AND MUSICAL LITERATURE

Study of the periods of the history of music from the Middle Ages to the twentieth century with emphasis on the musical style of each period. Study of the styles and forms developed in each period emphasizing the most important composers of each period.

2 credits

MUSI 5051 INSTRUMENTAL LITERATURE

Analysis and evaluation of instrumental literature from the Renaissance to the present for teaching in different educational levels. The historical and structural aspects of the repertoire and their pedagogical qualities are evaluated. Includes music of Puerto Rico.

2 credits

MUSI 5061 VOCAL AND CHORAL LITERATURE

Analysis and evaluation of vocal and choral literature from the Renaissance to the present for teaching in different educational levels. The historical and structural aspects of the repertoire and their pedagogical qualities are evaluated. Includes music of Puerto Rico.

2 credits

MUSI 5065 POPULAR MUSIC

Study and appreciation of the styles and varieties of popular music from the nineteenth century to the present. Emphasis on the popular music of Puerto Rico, Latin America, the Caribbean and the United States. The factors influencing the development of each style are discussed and the diverse styles and subtypes are identified.

2 credits

MUSI 5080 ORCHESTRATION AND ARRANGING BY COMPUTER

Application of advanced arranging and composition techniques using computer technology as the principal tool.

2 credits

MUSI 5185 INTERPRETATION AND MUSICAL ANALYSIS

Integrated course in which musical structure as an instrument of analysis in musical interpretation is studied. Includes the study of the most recognized literature from the Renaissance to contemporary times, with emphasis on small musical forms.

3 credits

MUSI 5255, 5256, 5257 WORKSHOP IN APPLIED MUSIC I, II, III

Eight hours of individual training in performance or teaching the principal instrument during the academic term. Requires the supervision of a principal instrument professor.

1 credit per course

MUSI 5265 CONDUCTING AND LITERATURE

Training and supervised practice in conducting ensembles. Analysis and practice of practice techniques and study of scores. Study of style, performing practices and examples of choral and instrumental literature for students at different levels of performance.

3 credits

APPLIED MUSIC

Eight hours of individualized instruction during the academic term on the instrument. Emphasis on theoretical explanations and technical exercises. Includes the analysis and performance of advanced compositions of diverse musical styles. Requires a performance test before a jury at the end of the academic term. Prerequisite: an audition.

MUSI 5701, 5702, 6701, 6702	Flute
MUSI 5711, 5712, 6711, 6712	Oboe
MUSI 5721, 5722, 6721, 6722	Clarinet
MUSI 5731, 5732, 6731, 6732	Bassoon
MUSI 5741, 5742, 6741, 6742	Saxophone
MUSI 5751, 5752, 6751, 6752	Trumpet
MUSI 5761, 5762, 6761, 6762	Horn
MUSI 5771, 5772, 6771, 6772	Trombone
MUSI 5781, 5782, 6781, 6782	Euphonium
MUSI 5791, 5792, 6791, 6792	Tuba
MUSI 5801, 5802, 6801, 6802	Percussion
MUSI 5811, 5812, 6811, 6812	Piano
MUSI 5821, 5822, 6821, 6822	Organ
MUSI 5841, 5842, 6841, 6842	Voice
MUSI 5851, 5852, 6851, 6852	Violin
MUSI 5861, 5862, 6861, 6862	Viola
MUSI 5871, 5872, 6871, 6872	Cello
MUSI 5881, 5882, 6881, 6882	Contrabass
MUSI 5891, 5892, 6891, 6892	Guitar

1 credit per course

Courses in Music Education (MUED)

MUED 5050 THE TEACHING OF INSTRUMENTS

Appropriate study of methods, concepts, materials and repertoire for teaching the student’s principal instrument. Includes a project in teaching the instrument. Topics related to teaching strategies and particular learning characteristics of students who are at diverse performance levels are discussed.

2 credits

MUED 5060 THE TEACHING OF VOCAL AND CHORAL MUSIC

Appropriate study of methods, concepts, materials and repertoire for teaching vocal and choral music. The different physiological, psychological and acoustic voice problems are identified. Includes a project in teaching voice. Topics related to teaching strategies and particular learning characteristics of students who are at diverse performance levels are discussed.

2 credits

MUED 5100 RESEARCH TECHNIQUES IN MUSIC EDUCATION

Evaluation of sources in the area of music education. Examination of quantitative and qualitative methods. Writing of research projects, preparation and administration of questionnaires and tabulation of results.

3 credits

MUED 5101 PHILOSOPHY OF MUSICAL EDUCATION

Study of the principal philosophical approaches to music education (Reimer, Elliot, Langer, among others) as a basis for the formulation of a philosophy for the Puerto Rican context.

3 credits

MUED 5102 COMPARATIVE HISTORY OF MUSIC EDUCATION

Chronological study of Music Education. Analysis of the didactic approaches and the developmental stages of music education (revision, revolution and operative integration) during the twentieth century.

3 credits

MUED 5103 SEMINAR OF MUSIC EDUCATION AT THE ELEMENTARY LEVEL

Critical analysis of teaching the elements of music (rhythm, melody, harmony, among others) and their application at the elementary level making practical use of established methodologies in the context of Puerto Rico's elementary schools.

3 credits

MUED 5104 SEMINAR OF MUSIC EDUCATION AT THE SECONDARY LEVEL

Critical analysis of teaching the elements of music and their application at the secondary level, making practical use of the established methodologies and their application to the different instrumental-vocal groups, in the context of Puerto Rico's intermediate and high schools.

3 credits

MUED 5130 PSYCHOLOGY OF LEARNING MUSIC

Historical perspective of the development of learning theories with specific application to music education. Student are provided knowledge to analyze the established learning theories and their recent trends in the field of education and music teaching.

3 credits

MUED 5160 HISTORY AND PHILOSOPHY OF THE TEACHING OF MUSIC

Study and analysis of the historical, philosophical and psychological foundations of music education. The diverse approaches to musical and educational trends from which music education as we know it today and the new teaching modalities emerge are discussed and compared.

3 credits

MUED 5170 RESEARCH H METHODS IN MUSIC EDUCATION

Study of the use and administration of bibliographical resources for strengthening the teaching-learning process through research. Emphasis on the application of scientific methods for the research pertinent to the discipline. Includes the preparation of a proposal.

4 credits

MUED 5105 MEASUREMENT, ASSESSMENT AND EVALUATION OF MUSIC LEARNING

Detailed study of evaluation techniques particular to music to be used in applied music, ensembles and in the classroom. Study of the use of evaluation and assessment modalities as the basis for decision making and their relation to musical behavior.

3 credits

MUED 5106 TECHNOLOGY AND INSTRUCTIONAL DESIGN

Application of recent technology to music curriculum and its evaluation. Use of the computer and other electronic means with emphasis on the use of equipment, programs and equipment MIDI for digital recording. The appropriate

use of technology in the classroom is explored and evaluated. Development of skills using several operating systems within the context of music education and their general applications. Requires 30 hours of lecture and 45 hours of lab during the academic term.

3 credits

MUED 5190 SEMINAR IN THE TEACHING OF MUSIC

Study of recent topics and trends in music education. Recently created materials and methods and educational materials developed by class members are evaluated. Study of principles for curriculum design. Includes demonstration classes and active participation and discussion on the part of students.

3 credits

MUED 6000 SPECIAL PROJECT

Research project or creative project on a topic of music education that enriches the student's knowledge while contributing to existing knowledge or to the development of materials in the area of the music education. Requires the supervision of a professor. Prerequisite: MUED 5170.

4 credits

MUED 6690 SEMINAR ON MUSIC EDUCATION PRACTICE PROBLEMS

Development of specific classroom skills as the scenario for teacher performance. Includes dealing with the time allotted for teaching, the use of comparative methodologies for short and long term curriculum design. In addition, the course will guide students to accumulate their daily work experiences with the goal of converting them into research material within a structured theoretical frame. Emphasis on the concept of the music teacher as an artist.

3 credits

MUED 6691 THESIS SEMINAR

Identification of the subject for the Masters in Music Education Thesis. Collection of bibliographical materials and other instruments specific to the specialization. Writing of the thesis proposal.

3 credits

MUED 6692 THESIS IN MUSIC EDUCATION

Research project and writing on a subject that contributes to existing knowledge in the area of Music Education in Puerto Rico and Spanish America. Grade: P/NP.

3 credits

Courses in Music Technology (MUTE)

MUTE 5260 PROFESSIONAL SEMINAR IN MUSICAL TECHNOLOGY

Applications of recent technology to the music curriculum and their evaluation. Use of the computer and other electronic media with emphasis in the use of equipment, programs and MIDI equipment for digital recording. The appropriate use of technology in the classroom is explored and evaluated. Development of skills using various operating systems within the context of music teaching and its general applications. Requires 45 hours of lecture/lab.

3 credits

Courses in Nursing (NURS)

NURS 5000 THEORETICAL FOUNDATIONS

Analysis of philosophies, conceptual frameworks, models and theories that provide the foundations for the nursing profession. The relation between theory, research, practice, and philosophical, psychological and sociological foundations.

3 credits

NURS 5010 EPIDEMIOLOGY

Review of epidemiology concepts including methods to identify statistical distributions, determinants of health or illness and analytical techniques. Integrates the application of epidemiology principles in community health and primary care.

2 credits

NURS 5020 BIOSTATISTICS

Review and application of statistical methods in the research process in health sciences. Application of descriptive and inferential statistics in data interpretation. Use of the computer in the analysis of data.

3 credits

NURS 5040 HEALTH ASSESSMENT

Advanced course in health assessment with emphasis on the comprehensive assessment of the client throughout the life cycle. Includes multidimensional and interactive factors that affect the answers of the client in the sociostructural, sociocultural and biosocial context. Develops in the student knowledge of physical examination and pathophysiology that serve as the basis for advanced nursing practice. Information concerning the evaluation of health throughout the life cycle is analyzed critically.

2 credits

NURS 6050 CURRICULUM IN NURSING

Analysis of the theories and principles in the development of educational programs. Emphasis on the development and application of the nursing curriculum, including different models, designs, contents, methods and strategies of teaching, and curriculum implementation and evaluation.

3 credits

NURS 6060 EVALUATION IN EDUCATION IN NURSING

Application of theories, principles and evaluation models applied to nursing education. Development of evaluation and measurement instruments. Corequisite: NURS 6050.

3 credits

NURS 6070 ADMINISTRATION IN NURSING

Analysis of the theories and principles in the administrative process. Review of the organizational theories and research in tasks of the administrator and supervisor. Profound analysis of interpersonal relations problems, personnel management, finances, physical resources and other related areas.

3 credits

NURS 6080 EVALUATION IN ADMINISTRATION IN NURSING

Application of theories, principles, and evaluation models applied to administration in nursing. Development of an assessment and measurement instrument. Corequisite: NURS 6070.

3 credits

NURS 6090 RESEARCH IN NURSING

Development of a research proposal of a nursing problem identified by the student. The methodology and terminology of qualitative and quantitative research will be utilized. Written and oral presentation of the problem, review of literature, the conceptual framework and the methodology to be used during the investigation. Prerequisite: NURS 5020.

3 credits

NURS 6111 CRITICAL CARE I

Review of theoretical concepts and principles in critical care. Analysis of the nursing process and humanistic care and the roles and functions of the nursing professional in critical care units. Evaluation of ethical-legal concepts related to care of clients at a high risk of death. Analysis of immediate nursing care for the stabilization of cardio respiratory, renal and neurological functions in critical situations. Review of theories and educational strategies to

carry out the teaching-learning process of the client and family in critical care. Prerequisites: NURS 5000, 5010, 5020, 5040, 6910. Corequisite: NURS 6916.

3 credits

NURS 6112 CRITICAL CARE II

Analysis of biopsiopathologic concepts in problems, including: stabilization of the gastrointestinal and endocrine functions, complex multisystemic problems, burns and organ transplants, by integrating the nursing process and humanistic care to the critically ill client. Evaluation of the psycho-social and nutritional alterations, sleep alterations and dealing with pain. Analysis of research findings, administration and managing the care of the client in critical care scenarios. Prerequisites: NURS 6111, 6910, 6916. Corequisite: NURS 6917.

3 credits

NURS 6221 MEDICAL-SURGICAL NURSING I

Analysis of the pathophysiological response of the illness process that affects the functioning of the adult with alterations of the following systems: immunological, intergumentary, digestive and gastrointestinal, endocrine and metabolic, and renal. Review of assessment skills, planning, implementation and evaluation of nursing therapeutic interventions. Analysis of ethical and legal aspects, critical thinking, problem solving and communication skills. Prerequisites: NURS 5000, 5010, 5020, 5040, 6910. Corequisite: NURS 6918.

3 credits

NURS 6222 MEDICAL-SURGICAL NURSING II

Analysis of the pathophysiological response of the illness process that affects the functioning of the adult with alterations of the following systems: neurological, musculoskeletal, cardiovascular, circulatory and hematological, respiratory and reproductive. Review of assessment skills, planning, implementation and evaluation of nursing therapeutic interventions. Analysis of legal and ethical problems, new trends in the nursing profession and research findings. Prerequisites: NURS 6221, 6918, 6910. Corequisite: NURS 6919.

3 credits

NURS 6910 PRACTICE HEALTH ASSESSMENT

Application of the nursing process during the advanced practice in health assessment based on theory, empirical documentation, physical examination skills, therapeutic communication, biosicosocial aspect, critical reasoning, diagnosis differential and the process of decision making. Acquisition of knowledge and the advanced skills required for a case study. The practice of health assessment skills is carried out in structured and not structured scenarios. Requires sixty (60) hours of clinical practice. Corequisite: NURS 5040.

2 credits

NURS 6914 EDUCATIONAL PRACTICE IN NURSING

Practice in a nursing program in an institution recognized by the Council on Higher Education, under the supervision of the professor and the practice supervisor. Requires eight hours of practice weekly. Prerequisites: NURS 6050, 6060.

4 credits

NURS 6915 ADMINISTRATIVE PRACTICE IN NURSING

Practice in different health service scenarios, under the supervision of the professor and the practice supervisor. Requires ten hours of practice weekly. Prerequisites: NURS 6070, 6080.

4 credits

NURS 6916 PRACTICE IN CRITICAL CARE I

Advanced practice in nursing care of critically ill clients who present clinical problems (cardio respiratory, renal and neurological) that occur as a result of diseases or treatment. Emphasis on assessment, pharmacological, administration, therapeutic and evaluation strategies. Application of theoretical concepts, ethical-legal principles, roles and functions, and nursing interventions in the context of clinical practice. Analysis and interpretation of

laboratory test results and studies. Requires four (4) hours of practice weekly in clinical critical care scenarios. Prerequisites: NURS 5000, 5010, 5020, 5040, 6910. Corequisite: NURS 6111.

2 credits

NURS 6917 PRACTICE IN CRITICAL CARE II

Advanced practice in nursing care of critically ill clients who present gastrointestinal and endocrine alterations, complex multisystemic problems, burns and administration of transplant patients. Application of the nursing process and humanistic care while offering nursing care to the critically ill client. Demonstration of advanced clinical skills in the coordination of collaborative administration of clients with psycho-social and nutritional alterations, sleep alterations and management of pain in critically ill clients. Requires four (4) hours of practice weekly in clinical critical care scenarios. Prerequisites: NURS 6111, 6910, 6916. Corequisite: NURS 6112.

2 credits

NURS 6918 PRACTICE IN MEDICAL-SURGICAL NURSING I

Advanced practice in nursing care of critically ill clients with common diseases of the following systems: immunological, intergumentary, digestive and gastrointestinal, endocrine and metabolic, and renal. Application of assessment skills, planning, implementation and evaluation of nursing therapeutic interventions. Application of ethical and legal aspects, critical thinking, problem solving and communication skills during the intervention. Requires four (4) hours of practice weekly in variable health scenarios. Prerequisites: NURS 5000, 5010, 5020, 5040, 6910. Corequisite: NURS 6221.

2 credits

NURS 6919 PRACTICE IN MEDICAL SURGICAL NURSING II

Advanced practice in nursing care of clients with diseases that affect the functioning of adults in the following systems: neurological, musculoskeletal, cardiovascular, circulatory and hematological, respiratory and reproductive. Application of assessment skills, planning, implementation and evaluation of the nursing therapeutic interventions. Evaluation of ethical, legal problems, new trends in the nursing profession and research findings during the advanced practice of medical-surgical nursing. Requires four (4) hours of practice weekly in variable health scenarios. Prerequisites: NURS 6221, 6918, 6910. Corequisite: NURS 6222.

2 credits

NURS 6990 RESEARCH PROJECT

Research project on a problem that adds information to existing knowledge in the area of Nursing in the fields of specialization. In this course the student will develop the research proposal approved in the course NURS 6090. Students will be under the supervision of a professor, who will serve as mentor during the research and will evaluate student performance during the course. This project involves the utilization of statistical methods to analyze the data obtained. Prerequisite: NURS 6090.

3 credits

Courses in Open Information Computer Systems (COIS)

COIS 5100 RELATIONAL DATA BASES

Analysis of databases. Includes a general view and cost-benefit. Emphasis on Codd's relational model, its implications in the development of the of Database Management Systems (DBMS) and the SQL language. Creation and maintenance of a data bank in standard SQL. Requires additional time in an open lab.

3 credits

COIS 5120 CLIENT-SERVER NETWORKS AND ARCHITECTURE

Discussion of the basic concepts of telecommunications and local networks. Includes the different connection architectures and open systems. Emphasis on client-server architectures, technologies, middleware and clients. Analysis of benefits, costs and risks, communication between processes, remote processes, cooperative environments, distributed architectures and future trends. Requires additional time in an open lab.

3 credits

COIS 5130 DESIGN METHODOLOGY AND ADVANCED TOOLS

Application of the top down design methodology and the entity-relation model for the standardized design of a database. Design, development and implementation of a relational central bank. Development of complex data models. Includes advanced design tools. Requires additional time in an open lab.

3 credits

COIS 5200 APPLICATION OF PROGRAMMING LANGUAGES IN DATABASES

Comparison of languages of the third and fourth generation. Application of a visual programming high-level language. Analysis of programming principles oriented towards the object. Management of libraries, subroutines, controls and designers to produce high quality programs oriented to programming for information systems with data banks and interaction with SQL. Requires additional time in an open lab. Prerequisites: COIS 5100, 5130.

3 credits

COIS 5210 DATABASE MANAGEMENT

Analysis of the administration and modification of a database. Includes management of users, accounts, functions and privileges. Database space administration. Emphasis on backup, recovery, integrity and concurrent access. Requires additional time in an open lab. Prerequisites: COIS 5100, 5120.

3 credits

COIS 5220 REENGINEERING PROCESSES

Solution for data requirements in organizations. Crisis and identifying opportunities. Reengineering process in organizations (BPR). Redesigning processes, The role of information technologies. Leadership. Handling projects on a computer. Migration towards open and distributed settings. Case studies. Requires additional time in an open laboratory. Prerequisite: COIS 5120.

3 credits

COIS 5300 ANALYSIS OF OPEN SYSTEMS AND COMPUTER AIDED SOFTWARE ENGINEERING (CASE)

Analysis of the cycle for the development of an open information system. Includes analysis of strategies and diagrams. Application of Computer Aided Software Engineering (CASE) for the analysis, design, development and documentation of an open information system. Emphasis on the development of an information system viability study. Requires additional time in an open lab. Prerequisites: COIS 5130, 5210, BADM 5060.

3 credits

COIS 5400 RAPID APPLICATION DEVELOPMENT

Use of rapid application development systems (RAD). Design and construction of programming blocks, forms, reports and other applications using databases. Emphasis on the functional prototype of an open information system requiring a database. Requires additional time in an open lab. Prerequisites: COIS 5200, 5210.

3 credits

COIS 6200 SYSTEM TUNING, TROUBLESHOOTING, CODIFICATION, SECURITY AND QUALITY

Detailed review of relational databases to verify and correct initiation parameters that solve performance problems. Evaluation of the measurements taken on the equipment operating the database to make recommendations. Detailed review of code development aspects in applications affecting the performance of a database. Includes security, physical and logical protections and recovery from disasters in open information systems. Requires additional time in an open lab. Prerequisite: COIS 5210.

3 credits

COIS 6250 MULTIMEDIA AND INTERFACE

Creation, copying and managing images and sounds. Includes animation, storage, compression, integration of videos and other means. Interface design. Emphasis on person-computer dialogue, windows, integration of multimedia into a database. Requires additional time in an open lab.

3 credits

COIS 6360 SOCIAL IMPACT OF COMPUTERS

Professional ethics. The risk of technology. Critical systems. Technology and work. Accessibility of information. Privacy. Computer crimes. Copyright and pirating. Other social problems.

3 credits

COIS 6370 GEOGRAPHIC INFORMATION SYSTEMS

Computerized application of Geographic Information Systems (GIS). Analysis of types of maps and graphic representations. Review of the impact of GIS in planning. Requires additional time in an open lab.

3 credits

COIS 6380 DECISION SUPPORT SYSTEMS (DDS) IN THE DECISION MAKING PROCESS

Analysis of support systems for decision-making and their integration into data banks and information systems. Integration with a knowledge bank. Includes the structures of decision-making models and the investigation of operations. Emphasis on executive support systems (ESS). Requires additional time in an open lab. Prerequisite: BADM 5060.

3 credits

COIS 6970 SEMINAR ON ADVANCED TOPICS IN OPEN SYSTEMS

Study the problems related to the field of open information computer systems. Prerequisite: Approval from the Program Coordinator.

3 credits

COIS 6975 RESEARCH SEMINAR

Identification of a research topic in the field of open information computer systems. Research methodology. Using computer tools for research. Analysis of literature, selection of a methodology and development of a proposal or article. Prerequisite: approval of the Program Coordinator.

3 credits

COIS 6980 PROJECT DEVELOPMENT IN OPEN INFORMATION SYSTEMS

Design and development of an open information system in a client/server architecture. Establishment of the data requirements of an organization. Creation of a relational database using advanced designed tools. Installation of a database allowing for access of different types of users (different privileges and accounts). The system must show that it observes the rules of data integrity, concurrence, management, tuning and maintenance. A formal public presentation of the system, with prior authorization of the project professor and the Coordinator of the Program is required. Students will register in this course as many times as necessary until finishing their project. Prerequisites: COIS 5300, 5400, 6200. Grade: P/NP.

3 credits

Courses in Psychology (PSYC)**PSYC 5010 HISTORY AND SYSTEMS OF PSYCHOLOGY**

The development process of psychology from a historical, philosophical, and scientific perspective. Critical analysis of the influence of other schools of thoughts, like occidental philosophy, oriental philosophy, scientific empiricism, and naturalism, in the creation of the body of knowledge of contemporary psychology.

3 credits

PSYC 5030 ETHICS AND LEGAL ASPECTS OF PSYCHOLOGY

Evaluation of the philosophical systems related to the state and federal standards that regulate the professional practice of school psychology, psychological counseling and industrial/organizational psychology. Includes the analysis of controversies that arise in professional practice and the alternatives to solve them.

3 credits

PSYC 5033 INTERVIEW PROCESSES AND TECHNIQUES

Management of the psychological interview based on communication theories. Emphasis on the application of the different interview modalities in different populations and the analysis of behaviors, attitudes and feelings that affect it. Includes skills for the systematic analysis of scientific literature related to this subject. Concurrent with PSYC 6410.

2 credits

PSYC 5040 PHYSIOLOGICAL PSYCHOLOGY

Development of knowledge on neuroanatomy, neurophysiology and human pharmacology as the biological base of motor, sensorial, affective and cognitive processes. Emphasis on the relation of the central nervous system in the processing of emotions, motivations and cognition.

3 credits

PSYC 5050 DEVELOPMENTAL PSYCHOLOGY

Analysis of the theories and approaches that study development from a holistic perspective. Emphasis on personality development and the theories that seek to explain the formation of the I (psychoanalytic, of the conduct and learning, humanistic - existentialist, cognitive).

3 credits

PSYC 5060 PSYCHOLOGY OF PERSONALITY

Theories and personality research within the psychodynamic, humanist, behavioral and cognitive models. Analysis of their relationship with aspects such as: development, learning, and motivation, conflict and culture.

3 credits

PSYC 5100 COGNITION, MOTIVATION AND LEARNING

Synthesis of the cognitive, affective and perceptual processes. Discussion of learning theories and the factors that interact to explain human conduct and thought.

3 credits

PSYC 5150 ADVANCED STATISTICS

Analysis of inferential statistical methods applied to behavioral sciences: measures of correlation and regression, t tests, ANOVA (up to mixed designs of two routes or double classification) and nonparametric tests. Includes the use of computerized statistical analysis programs. Concurrent with PSYC 6421.

2 credits

PSYC 5153 PRINCIPLES OF MEASUREMENT AND CONSTRUCTION OF PSYCHOLOGICAL TESTS

Methods for the analysis and construction of items to estimate reliability, validity and test standardization. The development of tests used in diverse psychological service centers. Analysis of the ethical and social controversies in the use of psychological tests in Puerto Rico. Prerequisite: PSYC 5150.

3 credits

PSYC 5200 CONTEMPORARY SOCIAL PSYCHOLOGY

Review of contemporary trends in social psychology, such as: symbolic interactionism, ethnomethodology, cognitive orientation and constructionist, critical and postmodern perspective. Includes analysis of studied trends based on their meaning for the Puerto Rican society.

3 credits

PSYC 5220 METHODOLOGY OF RESEARCH IN PSYCHOLOGY

Evaluation of research methodologies, that apply to psychology. Includes interview, questionnaire, observations, "Q-sort", scales and tests. Discussion of studies that include naturalistic and systematic observation; field studies, "ex post facto" and co relational; and the evaluation of programs for the analysis of the different research levels. Prerequisites: PSYC 5150, 6421. Concurrent with PSYC 6422.

2 credits

PSYC 5280 ROLES AND FUNCTIONS OF THE SCHOOL PSYCHOLOGIST

Roles of the school psychologist as a diagnostician, therapist, consultant and trainer. Analysis and application of the skills and knowledge related to the prevention and intervention of emotional and learning problems. Functions involved in consulting and training teachers, administrators and parents in the school system.

3 credits

PSYC 5285 PSYCHOLOGICAL COUNSELING

Development of psychological counseling as a specialization. Synthesis of the psychological advisor's areas of competencies. Includes topics related to human diversity, gender, age, special populations, occupational and vocational topics, among others.

3 credits

PSYC 5295 CONSULTING, COLLABORATION AND SCHOOL ORGANIZATION

Summary of the consulting, collaboration and school organization models with emphasis on their application to particular situations. Discussion of the systems that influence the development and conduct of children and adolescents, including the school and family system.

3 credits

PSYC 6050 INTERVENTION MODELS AND TECHNIQUES I

Evaluation and comparison of the classic and traditional psychotherapeutic approaches. Emphasis on the application of intervention strategies for each model. Includes the process of creating cases and use of simulations. Prerequisite: PSYC 5285.

3 credits

PSYC 6051 INTERVENTION MODELS AND TECHNIQUES II

Evaluation of contemporary psychotherapeutic models. Emphasis on the identification of contemporary, alternative or complementary intervention strategies. Includes simulations of intervention strategies and techniques with groups, couples or families. Prerequisite: PSYC 6050.

3 credits

PSYC 6090 PSYCHOPATHOLOGY

Review of the varied approaches that study deviant behavior, mental and behavior disorders. Includes causes, manifestations, severity levels and classification systems. Prerequisite: PSYC 5050.

3 credits

PSYC 6110 PSYCHOLOGICAL AND LEARNING PROBLEMS IN CHILDREN AND ADOLESCENTS

Evaluation of the traditional and contemporary approaches that study emotional, behavioral, and learning disturbances in children and adolescents. Includes causes, manifestations, severity levels, and the classification systems used in the diagnosis of these disorders. Prerequisite: PSYC 5050.

3 credits

PSYC 6113 COUNSELING AND PSYCHOTHERAPY MODELS

Diverse models of counseling and psychotherapy designed with behavioral, cognitive, rational, humanist and psychodynamic approaches. Review of the theoretical basis of these models as well as case studies. Prerequisite: PSYC 6090.

3 credits

PSYC 6114 COUNSELING AND PSYCHOTHERAPY TECHNIQUES

Application of diverse models of counseling and psychotherapy according to the different schools of thought. The acquisition of counseling and psychotherapy techniques and the practical aspects of this acquisition by utilizing role playing and other ways of practicing the use of the different models. Prerequisite: PSYC 6113.

3 credits

PSYC 6214 INTERVENTION AND PSYCHOTHERAPY MODELS WITH CHILDREN AND ADOLESCENTS

The diverse psychotherapeutic models and behavior management techniques utilized in work with children and adolescents. Critical analysis of research available on the application of existing intervention models in the context of Puerto Rican society and culture. Intervention strategies and psychological models from various approaches and their adequacy in the treatment of diverse clinical problems. Prerequisite: PSYC 6110.

3 credits

PSYC 6215 APPLIED BEHAVIORAL ANALYSIS WITH CHILDREN AND ADOLESCENTS

Description of theories, principles and procedures of behavioral analysis applied to children and adolescents. Emphasis on procedures and techniques designed to modify specific behaviors. Includes the development of competencies for the application of principles, problem analysis, and selection of effective and ethical procedures and design of programs. Prerequisite: PSYC 5100.

3 credits

PSYC 6216 PSYCHO EDUCATIONAL EVALUATION AND INTERVENTIONS WITH EXCEPTIONAL CHILDREN

Evaluation of exceptional children. Use of psycho educational interventions to obtain the goals and development of cognitive and academic skills in children with diverse abilities, incapacities, strengths and needs. Prerequisites: PSYC 6260, 6914. Corequisite: PSYC 6428.

2 credits

PSYC 6260 COGNITIVE ASSESSMENT

Review of the theoretical and practical aspects of administration, scoring and interpretation of cognitive tests most frequently used in Puerto Rico with diverse populations. Integration of the most recent research. Prerequisites: PSYC 5033, 5153. Corequisite: PSYC 6914.

3 credits

PSYC 6270 PERSONALITY ASSESSMENT

Review of the theoretical and practical aspects of the administration, scoring and interpretation of personality tests most frequently used in Puerto Rico with diverse populations. Integration of the most recent research. Prerequisites: PSYC 5033, 5153. Corequisite: PSYC 6915.

3 credits

PSYC 6300 PERSONNEL PSYCHOLOGY

Consideration of recent psychological literature in the area of personnel, including recruitment, interview, employee evaluation, work analysis, location, handling of conflicts and productivity motivation.

4 credits

PSYC 6303 PSYCHOLOGICAL AND SOCIAL ASPECTS IN ORGANIZATIONAL BEHAVIOR

Perception, motivation and attitudes and their effect on the work environment. Analysis of the concepts of power and influence, the process of change, conflict management, satisfaction, organizational commitment as elements of the organizational culture. Emphasis on the analysis and development of techniques to manage groups effectively.

3 credits

PSYC 6304 STRATEGIES FOR QUALITY IN THE ORGANIZATION

Consideration of the main strategies of Total Quality and the concepts of Organizational Development and their application to industrial/organizational psychology. Emphasis in their impact for the empowerment of human resource, client orientation, excellent leadership and process improvement.

3 credits

PSYC 6305 STRATEGIES FOR CONTINUOUS IMPROVEMENT AND DECISION MAKING

Application of Statistical Process Control in problem solving and decision-making. Special attention to measurement techniques and analysis of data to reduce process variation. Analysis of the psychological elements in decision-making and problem solving. Prerequisite: PSYC 6304.

2 credits

PSYC 6306 PSYCHOLOGICAL DIMENSIONS IN THE EDUCATION AND TRAINING OF HUMAN RESOURCES

Review of the different learning and teaching styles, adult education, planning, material preparation, diagnosis type evaluation and follow up. Design of education and training programs for different types of organizations. Prerequisites: PSYC 6300, 6303.

4 credits

PSYC 6308 CURRENT ASPECTS OF INDUSTRIAL/ORGANIZACIONAL PSYCHOLOGY

Analysis of research and literature on current topics observed in the contemporary practice and their implications to the professional work with organizations. Special emphasis will be given to matters that characterize the individual, groups, organizations and their background.

3 credits

PSYC 6313 DEVELOPMENT AND APPLICATION OF INSTRUMENTS FOR MANAGERIAL INFORMATION

Application of psychological measurement principles to the construction, development and validation of instruments. The use of scales, questionnaires, observation guidelines, interviews and test development.

3 credits

PSYC 6314 PSYCHOLOGICAL EVALUATION IN THE INDUSTRIAL/ORGANIZATIONAL ENVIRONMENT

Psychological testing in selection, professional development and placement. Tests that measure the areas of personality, cognition, aptitude, occupational preferences and administrative and supervisory skills. Prerequisite: PSYC 5153.

3 credits

PSYC 6316 PSYCHOLOGY OF LEADERSHIP

The concept of leadership from a behavioral perspective. An analysis of the roles of the organizer, facilitator, teacher and technician that are executed during supervision. Emphasis on the concepts of vision, values and leadership behavior. Prerequisites: PSYC 6300, 6303.

3 credits

PSYC 6317 PROFESSIONAL CONSULTING

The diverse models of psychological consulting within organizations, the steps in the consulting process and the elements related to the role of consultant. A review of the client/supplier relationship in areas such as assessment, use of interdisciplinary teams, contract negotiations, written reports, ethical implications, legal forums and others. Prerequisites: PSYC 6300, 6303.

3 credits

PSYC 6410 PRACTICE IN INTERVIEW PROCESSES AND TECHNIQUES

Practice on interview processes and techniques. Preparation of interview videos with children, adolescents and adults to refine skills. Evaluation of interviews in a group context. Concurrent with PSYC 5033. Grade: P/NP.

1 credit

PSYC 6421 PRACTICE IN ADVANCED STATISTICS

Practice in data analysis and interpretation with the use of computerized programs. Includes writing of statistical analysis results following selected professional formats. Concurrent with PSYC 5150. Grade: P/NP.

1 credit

PSYC 6422 PRACTICE IN PSYCHOLOGY RESEARCH

Practice in the development of bibliographical research skills, review of specialization related research, and the professional APA writing style. Prerequisites: PSYC 5150, 6421. Concurrent with PSYC 5220. Grade: P/NP.

1 credit

PSYC 6428 PRACTICE IN PSYCO EDUCATIONAL EVALUATION AND INTERVENTIONS WITH EXCEPTIONAL CHILDREN

Practice in psycho educational evaluation with exceptional children. Emphasis on the administration and interpretation of cognitive and learning mental process evaluation instruments and in the development of goals and appropriate interventions for this population. Concurrent with PSYC 6216. Grade: P/NP.

1 credit

PSYC 6914 PRACTICE IN COGNITIVE ASSESSMENT

Supervised practice directed to cognitive assessment. Emphasis on the administration, correction and interpretation of cognitive tests; preparation of case histories, writing of the report and discussion of results. Includes specific training in psychological tests. Concurrent with PSYC 6260. Grade: P/NP.

1 credit

PSYC 6915 PRACTICE IN PERSONALITY ASSESSMENT

Supervised practice directed to personality assessment. Emphasis on the administration, correction and interpretation of personality tests; preparation of case histories, writing of the report, and discussion of results. Includes specific training in psychological tests. Concurrent with PSYC 6270. Grade: P/NP.

1 credit

PSYC 6925 PRACTICE IN PSYCHOLOGICAL RESEARCH

Development and participation in a project of scientific research under the supervision of a faculty member according to the student's area of specialization. Requires 160 hours of practice distributed in agreement with the supervisor. Prerequisites: PSYC 5220. Grade: P/NP.

2 credits

PSYC 6930 PRACTICE I IN PERSONAL AND PROFESSIONAL DEVELOPMENT IN PSYCHOLOGY

Living and educational experience aimed for the personal and professional formation of the psychologist under the supervision of a faculty member. Emphasis on intra and interpersonal development and in skills related to: the psychological interview, conceptualization of psychological situations, professional assessment and professional decision-making. Use of portfolio as a strategy for self-evaluation and the evaluation of learning. Grade: P/NP.

(Fee equivalent to 1 credit)

PSYC 6931 PRACTICE II IN PSYCHOLOGICAL COUNSELING

Practical experiences aimed for the development of psychological evaluation skills. Integration and application of the skills of interviewing, review of records, writing of record, preparation of psychological evaluation reports. Development of skills related to feedback of test results, initial intervention, and consulting to parents and adults. The supervised practice will be carried out under business hours of the practice center where the student will be placed. Requires the completion of a minimum of 160 hours of practice under the supervision of a faculty member, 8 hours a week of practice in the assigned center and 2 additional hours of composition and reading outside the center. Prerequisites: PSYC 5260, 5270, 6914, 6915, 6930. Grade: P/NP.

(Fee equivalent to 3 credits)

PSYC 6932 PRACTICE III IN PSYCHOLOGICAL COUNSELING

Practical experiences aimed for the development of psychological intervention skills including psychological interview, psychological evaluation, psychodiagnosis, creation of the psychotherapeutic plan and psychotherapy. Emphasis on the brief psychotherapy models aimed for the prevention and promotion of mental health and socio-emotional adjustment. Requires the completion of a minimum of 160 hours of practice under the supervision of a faculty member, 8 hours a week of practice in the assigned center and 2 additional hours of composition and reading outside the center. Prerequisite: PSYC 6931. Grade: P/NP.

(Fee equivalent to 3 credits)

PSYC 6933 PRACTICE I: PERSONAL AND PROFESSIONAL DEVELOPMENT

Supervised practice directed to the personal and professional formation of the psychologist. Emphasis on the intra and interpersonal development and on the skills related to professional assessment and decision making. Use of portfolio as a self-evaluation strategy. Requires a minimum of 30 hours of supervised practice. Prerequisite: PSYC 5030. Grade: P/NP.

1 credit

PSYC 6934 PRACTICE II IN PSYCHOLOGICAL COUNSELING

Supervised practice aimed to develop evaluation skills relevant to the Psychological Counseling specialization. Emphasis on the use and administration of instruments and strategies for data interpretation, and report preparation. Requires a minimum of 160 hours of supervised practice. Prerequisites: PSYC 5010, 5030, 5050, 5285, 6260, 6270, 6914, 6915, 6090, 6933. Grade: P/NP.

3 credits

PSYC 6935 PRACTICE III IN PSYCHOLOGICAL COUNSELING

Supervised practice to strengthen the psychological evaluation skills relevant to the Psychological Counseling specialization and to initiate the integration of the intervention models typically used in this specialization. Emphasis on the application of diverse psychotherapeutic modalities such as the psychotherapy or the vocational, individual, couple, family and group counseling. Requires a minimum of 160 hours of practice with a variety of populations during the regular working hours of the practice center. Prerequisites: PSYC 6050, 6051, 6934. Grade: P/NP.

3 credits

PSYC 6936 PRACTICUM IN PSYCHOLOGICAL COUNSELING

Supervised practice to strengthen the integration skills of the models typically used in the psychological counseling specialization. Emphasis on the application of diverse psychotherapeutic modalities such as psychotherapy or vocational, individual, couple, family and group counseling. Requires a minimum of 160 hours of practice with different populations during the regular working hours of the practice center. Prerequisites: PSYC 6934, 6935. Grade: P/NP.

3 credits

PSYC 6941 PRACTICE II IN SCHOOL PSYCHOLOGY

Practical experiences aimed for the development of psychological evaluation skills. Integration and application of the skills of interviewing, review of records, writing of records, preparation of psychological evaluation reports. Development of skills related to: feedback of test results, initial intervention, and consulting of school administration, teachers, and parents. The supervised practice will be carried out under the business hours of the practice center where the student will be placed. Requires the completion of a minimum of 160 hours of practice under the supervision of a faculty member, 8 hours a week of practice in the assigned center and 2 additional hours of composition and reading outside the center. Prerequisites: PSYC 5260, 5270, 6914, 6915, 6930. Grade: P/NP.

(Fee equivalent to 3 credits)

PSYC 6942 PRACTICE III IN SCHOOL PSYCHOLOGY

Practical experiences aimed for the development of intervention skills in school psychology including psychological interview, psychological evaluation, psychodiagnosis, consulting, creation of an individual psychotherapeutic plan and application of psychotherapy techniques to infants, children and adolescents. Emphasis on the brief psychotherapy models aimed for the prevention and promotion of mental health and socio-emotional adjustment of children and adolescents. Requires the completion of a minimum of 160 hours of practice under the supervision of a faculty member, 8 hours a week of practice in the assigned center and 2 additional hours of composition and reading outside the center. Prerequisite: PSYC 6941. Grade: P/NP.

(Fee equivalent to 3 credits)

PSYC 6944 PRACTICE II IN SCHOOL PSYCHOLOGY

Supervised practice in the psychological and psycho educational evaluation skills. Emphasis on the skills related to administration, correction, interpretation of psycho educational and psychological evaluation instruments, writing of

pertinent recommendations and feedback of the evaluation findings. Requires 160 hours of supervised practice during regular working hours of the practice center. Prerequisites: PSYC 5010, 5030, 5050, 6110, 6216, 6260, 6270, 6428, 6914, 6915. Grade: P/NP.

3 credits

PSYC 6945 PRACTICE III IN SCHOOL PSYCHOLOGY

Supervised practice to strengthen the psychological and psychoeducational evaluation skills and to initiate the integration of the skills acquired with the professional competencies of school psychology, such as counseling to schools, parents and organizations. Requires a minimum of 160 hours of supervised practice during the regular working hours of the practice center. Prerequisites: PSYC 6214, 6944. Grade: P/NP.

3 credits

PSYC 6946 PRACTICUM IN SCHOOL PSYCHOLOGY

Supervised practice to strengthen the psychological intervention for the integration of skills acquired with the professional competencies of school psychology. Emphasis on counseling to schools and to parents and students. Requires a minimum of 160 hours of supervised practice during the regular working hours of the practice center. Prerequisites: PSYC 6214, 6944, 6945. Grade: P/NP.

3 credits

PSYC 6951 PRACTICE II IN INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY

Experiences that familiarize the student with the varied scenarios related to the practice of Industrial/Organizational Psychology. Development of professional skills related to organizational evaluation and diagnosis. Application of the different theories, instruments, and research methods to compile and conceptualize information. Requires the completion of a minimum of 160 hours of practice under the supervision of a faculty member, 8 hours a week of practice in the assigned center and 2 additional hours of composition and reading outside the center. Prerequisites: PSYC 6314, 6930. Grade: P/NP.

(Fee equivalent to 3 credits)

PSYC 6952 PRACTICE III IN INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY

Practical experiences through the placement of students in different scenarios such as: industry, government, service organizations, and community institutions. Individual supervision under a faculty member aimed for the development of skills related to position analysis and description, professional development plans, personnel evaluation, personnel interviews, and personnel services like the Employee Assistance Program, among others. Requires the completion of a minimum of 160 hours of practice under the supervision of a faculty member, 8 hours a week of practice in the assigned center and 2 additional hours of composition and reading outside the center. Prerequisite: PSYC 6951. Grade: P/NP.

(Fee equivalent to 3 credits)

PSYC 6954 PRACTICE II IN INDUSTRIAL/ORGANIZACIONAL PSYCHOLOGY

Supervised practice in diverse scenarios related to industrial/organizational psychology for the application of varied theories, research instruments and research methods in the compilation and conceptualization of information. Emphasis on the development of professional skills related to psychological evaluation, personnel evaluation, interviews, among others. Requires a minimum of 160 hours of supervised practice. Prerequisites: PSYC 6933, 6314. Grade: P/NP.

3 credits

PSYC 6955 PRACTICE III IN INDUSTRIAL/ORGANIZACIONAL PSYCHOLOGY

Supervised practice for the development of skills related to training, description and analysis of positions, professional development plans, and personnel service such as Employee Assistance Programs and Wellness Programs, among others. Requires a minimum of 160 hours of supervised practice in different scenarios such as private companies, service organizations, government and communitarian institutions. Prerequisites: PSYC 6954, 6306. Grade: P/NP.

3 credits

PSYC 6960 ADVANCED SEMINAR IN PSYCHOLOGICAL COUNSELING

Evaluation of multiple aspects of the professional practice of psychology in service settings. Emphasis on the analysis of topics such as: family psychotherapy, counseling and psychotherapy with woman, group counseling and psychotherapy with severely medically ill patients, among others. Prerequisites: PSYC 6090, 6051.

3 credits

PSYC 6963 ADVANCED SEMINAR IN PSYCHOLOGICAL EVALUATION

Review of the theories, approaches and procedures that integrate advanced psychological evaluation techniques. Critique of the standards that affect the practice. Includes the evaluation of legal decisions that challenge or confirm the validity of psychological evaluation and testimonies of expert psychologists. Prerequisites: PSYC 6260, 6270, 6914, 6915.

3 credits

PSYC 6973 ADVANCED SEMINAR IN SCHOOL PSYCHOLOGY

Valuation of the multiple aspects involved in the professional practice of psychology in school and psycho educational settings. Includes psychological development and development disorders, evaluation, intervention, consultation, and ethical norms. Prerequisites: PSYC 5295, 6110.

3 credits

PSYC 6974 ADVANCED SEMINAR IN PERSONNEL PSYCHOLOGY

1-3 credits

PSYC 6980 RESEARCH IN INDUSTRIAL/ORGANIZACIONAL PSYCHOLOGY

Review of scientific research methodology in the industrial/organizational psychology field. Includes the evolution of research, use of traditional and contemporary qualitative and quantitative methods, methods of analysis and publishing of results within the organization and in professional forums.

3 credits

PSYC 6983 SEMINAR ON PSYCHOLOGICAL RESEARCH

Writing of a research proposal related to the student's specialization. Emphasis on the application of the quantitative or qualitative methodology. Prerequisites: PSYC 5220, 6422. Grade: P/NP.

2 credits

PSYC 6989 INTERNSHIP IN SCHOOL PSYCHOLOGY

Integration of the knowledge and skills in providing services pertinent to school psychology. Requires 1,200 internship hours to be completed in a period of 1-2 years. A minimum of 600 internship hours will be completed in a school scenario. Grade: P/NP.

Quota equivalent to 6 credits

PSYC 6990 THESIS

Development of a qualitative or quantitative research on a subject pertinent to psychology. Includes the supervision of a Thesis Committee and the defense of the thesis before the Psychology Graduate Program Faculty. Students will register as many times as necessary until finishing their research work. Prerequisites: PSYC 5150, 5220, 6421, 6422 and specialization courses. Grade: P/NP.

3 credits

The following courses (PSYC 5231, 5232, 6000, 6005, 6010, 6015, 6020, 691A, 691B, 691C and 697F are for the exclusive use of the Master in Science Degree in Psychological Counseling in Family.

PSYC 5231 PSYCHOLOGICAL MEASUREMENT I

Analysis of the types of psychological cognitive tests, interpretation, use and application to the individual and the family. Study of the controversies related to the use of these in the diagnosis and treatment of human conflicts (45

hours lecture). In addition, the student must complete concurrently 25 hours of supervised practice in the administration, interpretation and writing of reports of the cognitive tests most used in Puerto Rico.

3 credits

PSYC 5232 PSYCHOLOGICAL MEASUREMENT II

Analysis of the types of psychological tests of personality, interpretation, use and application in the measurement of psychological characteristics of the individuals and the family. Discussion of the controversies related to the use of these and their application to human conflicts (45 hours of lecture). In addition, the student must complete concurrently 25 hours of supervised practice in the administration, correction, interpretation and writing of reports of the psychological tests of personality most used in Puerto Rico. Prerequisite: PSYC 5231.

3 credits

PSYC 6000 THEORETICAL FOUNDATIONS OF FAMILY THERAPY

Study and analysis of the historical development of family therapy theories from their fundamental bases to post-modernism. Emphasis on the different models that conceptualize family dynamics and the therapeutic techniques used in systemic intervention.

3 credits

PSYC 6005 FAMILY PSYCHOPATHOLOGY

Analysis of current situations of family life and the dysfunctional dynamics generated in the home environment. Emphasis on the negative effect in the development of children; in domestic violence and the nontraditional family styles that can generate pathology.

3 credits

PSYC 6010 MODELS AND TECHNIQUES OF FAMILY COUNSELING AND PSYCHOTHERAPY

Application of therapeutic models for intervention with the family. Emphasis on the development of the skills and techniques required for the effective handling of family therapy.

3 credits

PSYC 6015 THE NONTRADITIONAL FAMILY

Analysis of the contemporary topics brought up by the emerging styles of the nontraditional family and their individual, social and communitarian effect.

3 credits

PSYC 6020 INTERVENTION WITH FAMILIES IN CRISIS

Application of the intervention theories in crisis situations in diverse familiar structures. Emphasis on the development of the necessary skills for intervention in situations of familiar crises and mental health in the family. Prerequisite: PSYC 6005.

3 credits

PSYC 691A SUPERVISED PRACTICE IN PSYCHOLOGICAL COUNSELING I

Application of skills and intervention techniques in psychological counseling with individuals and families. Recognition, interpretation and application of interview techniques. Supervised experience for a period of 200 hours per academic term in institutions or in public or private agencies is required. Prerequisites: Approval of the Supervisor and have approved 12 credits.

2 credits

PSYC 691B SUPERVISED PRACTICE IN PSYCHOLOGICAL COUNSELING II

Application of skills and intervention techniques in psychological counseling with individuals and families. Conceptualization, diagnosis and treatment plan. Supervised experience for a period of 200 hours per academic term in institutions or in public or private agencies is required. Prerequisites: Approval of the Supervisor and have approved PSYC 691A.

2 credits

PSYC 691C SUPERVISED PRACTICE IN PSYCHOLOGICAL COUNSELING III

Application of skills and intervention techniques in psychological counseling with individuals and families. Integration and therapeutic intervention. Supervised experience for a period of 200 hours per academic term in institutions or in public or private agencies is required. Prerequisites: Approval of the Supervisor and have approved PSYC 691B.

2 credits

PSYC 697F ADVANCED INTEGRATION SEMINAR

Integration of multiple aspects of psychological counseling practice in scenarios offering aid for individuals and the family. Emphasis on the study, analysis and discussion applied to problems and present trends, such as: family rights, mediation and group dynamics, human sexuality, deviant behavior and mental disorders of children and adolescents; among others topics. Includes the incorporation of topics and unique events that may allow the update of the curriculum of the masters degree in light of new and emerging knowledge in psychological counseling.

3 credits

PSYC 7010 HUMAN DIVERSITY

Study of aspects inherent to the role of culture and individual diversity and their relation with research and practice of psychology in Puerto Rico. Analysis of the psychological and ethical implications related to: race, ethnic group, religion, gender, sexual orientation, and social class, among others.

2 credits

PSYC 7020 NEUROPSYCHOLOGY

Fundamental training on the theories and systems that explain the cerebral basis of behavior and the psychological, normal and dysfunctional processes in school, industrial, and Psychological Counseling scenarios.

3 credits

PSYC 7030 QUANTITATIVE RESEARCH METHODS

Critical analysis of descriptive, experimental, and quasi-experimental designs, applied to the development of needs studies, opinion polls, and quasi-experimental and experimental research in psychology. Corequisite: PSYC 8910.

2 credits

PSYC 7040 QUALITATIVE RESEARCH METHODS

The philosophical bases and the types of studies used in qualitative methodology, as well as the methods for data compilation, such as the ethnographical interview, observation, and profound interview, among others. Application to special projects of concepts related to the categorization of data, content analysis, and triangulation of qualitative data. Corequisite: PSYC 8911.

2 credits

PSYC 7050 DESIGN AND EVALUATION OF PSYCHOLOGICAL PROGRAMS AND SERVICES

Principles, theories and strategies that guide the planning and design of psychological programs and services. Emphasis on the use of the scientific method and research in action approach applied to the design and evaluation of programs and psychological services. Development of a project of planning and evaluation of a psychological service program, according to each area of specialization. Corequisite: PSYC 8912.

2 credits

PSYC 7970 SPECIAL TOPICS

1-3 credits

PSYC 8210 ADULTHOOD: PSYCHOLOGICAL PERSPECTIVES

Adulthood as a dynamic process of development where the individual has to make constant transitions and changes in relation to family, work and society. Analysis of social problems from the psychological perspective that adults face, such as couple relations, change of social roles, retirement, social participation, health situations, and sexuality,

among others. Application of concepts on evaluation, intervention, and ethical issues in the management of these situations of Psychological Counseling.

3 credits

PSYC 8220 PSYCHOTHERAPEUTIC INTERVENTION WITH FAMILIES

Study of different styles, configurations, and models of the contemporary family. Discussion of the main models, paradigms, and psychological intervention techniques with families including the systemic model, the structural model, the psychodynamic model, among others. Application of evaluation, diagnosis and psychological intervention methods, as well as prevention strategies, pertinent to situations that families confront.

3 credits

PSYC 8230 EVALUATION AND INTERVENTION IN POPULATIONS WITH SPECIAL CONDITIONS

Analysis of the current problems of persons with special characteristics, severe conditions and handicaps. Study of new federal and state legislation that defines and regulates the standards of service with emphasis on ethical implications and intervention with those populations. The course will give training on the methods of evaluation, diagnosis and prevention and psychological intervention strategies with those populations. Corequisite: PSYC 8913.

2 credits

PSYC 8240 SEMINAR IN PSYCHOLOGICAL EVALUATION

Theories, approaches, and procedures that allow an advanced integration of psychological testing techniques, cognitive evaluation and personality evaluation within the conceptual frame of the clinical-experimental method of generating hypothesis. The course is aimed for the evaluation of persons with handicaps, organic conditions or psychological dysfunction.

3 credits

PSYC 8250 PSYCHOTHERAPEUTIC INTERVENTION WITH COUPLES

Elements involved in the election and formation of a couple, interaction patterns, functional and dysfunctional, as well as, Psychological Counseling models applied to situations of traditional and non-traditional couples. Analysis of pertinent research to the intervention strategies of current problems such as violence, rupture, infertility, socio-emotional addiction, co-dependency, and other crisis situations.

3 credits

PSYC 8260 SEMINAR: HANDLING HIGH RISK PSYCHOLOGICAL CASES

Review of the theoretical, ethical, and legal aspects of the process of determining dangerousness or high risk. Discussion of the methods of evaluation, diagnosis, and psychological management of these groups. Among the topics that will be discussed in this seminar are persons with crisis situations, suicide attempts, victims of crime or violence, persons with self control problems, survivors of catastrophic events, persons with limiting or terminal diseases and aggressors, among others.

1-3 credits

PSYC 8270 GROUP PSYCHOTHERAPY

Study and application of postulates and practices of the different approaches to group psychotherapy. Emphasis on the evaluation and selection of psychotherapeutical approaches according to the particular needs of the different populations.

3 credits

PSYC 8280 ALTERNATIVE AND COMPLEMENTARY THERAPIES

The theoretical and philosophical approaches, techniques, methods, and procedures used in psychology and medicine to promote physical and mental health of human beings from a holistic perspective. Analysis of recent research regarding the mind-body approach and its effectiveness in management and intervention of different conditions such as depression, anxiety, tension, high blood pressure, migraine, and chronic diseases, among others. Application of therapies such as creative visualization, relaxation, meditation, reiki, yoga, and acupressure.

3 credits

PSYC 8310 PROFESSIONAL STANDARDS IN SCHOOL PSYCHOLOGY

Critical analysis of the different types of interventions and roles carried out by the school psychologist and their applicability to the context of current Puerto Rican society and culture. Emphasis on the issues related to the professional work of the school psychologist at the doctoral level: professional supervision, teaching at the graduate level, and the planning and evaluation of programs, and professional practice, among others. Analysis of professional, ethical and legal controversies in this area.

3 credits

PSYC 8320 SCHOOL ORGANIZATION AND OPERATION

Analysis of the different aspects in school organization and operation. Organizational theory applied to the educational scenario; processes of organizational change and the implications for the school personnel, the development, planning, and evaluation of psycho-educational programs.

3 credits

PSYC 8330 PSYCHOLOGICAL EVALUATION AND INTERVENTION WITH INFANTS AND PRESCHOOL CHILDREN

Study of different evaluation and intervention methods from the time of birth to five years of age. Emphasis on the evaluation of the cognitive and socio-emotional development of early childhood from an ecological and interaction perspective. Discussion of the importance of the participation of parents in the evaluation and intervention process. The course will have a supervised practice component where the student will develop the skills of administration, assessment and interpretation of evaluation findings. Corequisite: PSYC 8914.

2 credits

PSYC 8340 NEUROPSYCHOLOGICAL EVALUATION

Study of current research and theories about the brain-behavior relation, central nervous system dysfunction and their evaluation. Emphasis on individualized neuropsychological evaluation, oriented to the processes and generation of hypothesis. Issues related to common patterns of neuropsychological deficit and neuropsychological constructs and their neuroanatomical correlation in children and adults. Corequisite: PSYC 8915.

2 credits

PSYC 8410 ORGANIZATIONAL DESIGN AND CHANGE PROCESSES

Study of processes related to the design and restructuring of organizations. Emphasis on the psychological and organizational impact of the processes of change and transformation with their implications on work culture and environment. Presentation of different design modalities, including traditional bureaucracy, reengineering, organic structures, and high performance organizations. Analysis of different types of organization.

3 credits

PSYC 8420 DEVELOPMENT AND VALIDATION OF INSTRUMENTS FOR THE SEARCH OF INFORMATION IN THE ORGANIZATION

Application of the principles of psychological testing in the creation, development and validation of instruments. Development of scales, questionnaires, inventories, observation guides, interview guides, and tests. Requires the use of computers to make statistical analyses related to the assessment of reliability and validity of the instruments.

3 credits

PSYC 8430 SEMINAR IN INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY

Analysis of issues related to the professional practice of Industrial/Organizational psychology and the use of the skills acquired in an integrated fashion. Emphasis on the independent work of the student, analytical skills and the integration of theoretical, practical and methodological concepts. Focus on the ability of the psychologist to deliver judgments and act in accordance to the norms of the profession.

3 credits

PSYC 8440 DECISION MAKING AND THE SOLUTION OF CONFLICTS

Presentation and analysis of decisional behavior theories and their applications in individual and group contexts. Emphasis on processes of strategic planning, risks taking, conflict management, negotiation, and sensitivity toward human diversity.

3 credits

PSYC 8450 DESIGN OF TRAINING AND THE USE OF TECHNOLOGY

Application of techniques, methods and technological resources to the process of professional training. Includes methodologies related to the use of computers, virtual reality, distance learning, multimedia and Intra and Internet. Emphasis on research of human response in respect to the use of this technology. Requires 30 hours of lecture and 15 hours of lab.

3 credits

PSYC 8460 STUDY AND MANAGEMENT OF SELF-DIRECTED GROUPS

Analysis and application of strategies and approaches used in intervention, training, counseling, and organization of self-directed groups. Emphasis on the group processes that promote the autonomy in the operation, decisions, and performance of groups.

3 credits

PSYC 8470 DESIGN OF WORK SPACES

Research, analysis, and application of concepts related to human engineering, ergonomics and the creation of work environments to place persons with special needs. Emphasis on the compliance of regulations, and laws related to the work environment. Special attention to the involvement of people and the psychological responses that are generated by structural and environment change.

3 credits

PSYC 8480 MANAGING PAIN IN THE WORK ENVIRONMENT

Techniques, strategies, and approaches for managing emotional situations affecting the work environment, such as addictions, use and abuse of chemical substances and anti-social drugs, family stress, loss, follow up to medical or psychological treatment. Application of strategies such as support groups, psychological assistance, strategies of well-being and health, and work in interdisciplinary teams, among others. Attention to the process of professional development, analysis of values and spirituality.

3 credits

PSYC 8510 SEMINAR IN PROFESSIONAL CONSULTING

Principles and basic concepts in psychological and organizational consulting. Comparative analysis of intervention models and strategies in consulting in view of recent studies. Discussion of ethical aspects in the process of consulting. Exposition to experiences related to the role of the consultant in organizations, industries, schools, programs, and service agencies. The course will have a practice component where the student, under the supervision of a faculty member, will apply the knowledge and consulting strategies in different scenarios.

3 credits

PSYC 8910 PRACTICE IN QUANTITATIVE RESEARCH

Supervised experience in the application of quantitative models to special projects including descriptive, experimental, and quasi-experimental designs in psychology. Requires the use of computers and of SPSS. Corequisite: PSYC 7030. Grade: P/NP.

1 credit

PSYC 8911 PRACTICE IN QUALITATIVE RESEARCH

Supervised practical experience in which the student will develop the skills to formulate a research problem from the qualitative perspective, elaborate the methods for the compilation of data, use one of the strategies to obtain data, and apply one of the strategies for the analysis of data. Requires the use of computers. Corequisite: PSYC 7040. Grade: P/NP.

1 credit

PSYC 8912 PRACTICE IN THE DESIGN AND EVALUATION OF PSYCHOLOGICAL PROGRAMS AND SERVICES

Supervised practical experience in which the student will develop the skills to elaborate a design for the evaluation of an intervention, a psychological program or service, including methodology, instruments, compilation and analysis of data, and writing the evaluation report. Requires the use of computers. Corequisite: PSYC 7050. Grade: P/NP.

1 credit

PSYC 8913 PRACTICE IN EVALUATION AND INTERVENTION IN POPULATIONS WITH SPECIAL CONDITIONS

Supervised practical experience in the methods of psychological evaluation, and diagnostic of special conditions and neuropsychological handicaps, strategies of psychological intervention for these populations and the role of professional consulting in this field. Corequisite: PSYC 8230. Grade: P/NP.

1 credit

PSYC 8914 PRACTICE IN PSYCHOLOGICAL EVALUATION AND INTERVENTION WITH INFANTS AND PRESCHOOL CHILDREN

Supervised practical experience in which the student will develop the skills of administration, assessment and interpretation of the findings in psychological evaluation and intervention with infants and pre-school children. Corequisite: PSYC 8330. Grade: P/NP.

1 credit

PSYC 8915 PRACTICE IN NEUROPSYCHOLOGICAL EVALUATION

Supervised practical experience in which the student will develop the skills of administration, assessment and interpretation of the findings in neuropsychological evaluation. Corequisite: PSYC 8340. Grade: P/NP.

1 credit

PSYC 8916 PRACTICE IN INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY

Practical experiences aimed for the development of skills for organizational evaluation and diagnosis. Application of the different theories, instruments, and methods of research to conceptualize such information. Emphasis on the work of the organizational industrial psychologist in these interventions and in the consulting processes. Requires the completion of a minimum of 160 hours of practice under the supervision of a faculty member, 8 hours a week of practice in the assigned center and 2 additional hours of composition and reading outside the center. Grade: P/NP.

(Fee equivalent to 3 credits)

PSYC 8917 INTERNSHIP

An integrating experience of 2,000 hours in which students of the specializations of Psychological Counseling or School Psychology must show, under the supervision of a faculty member of the Doctoral Program in Psychology, their ability to integrate knowledge and skills, when offering a variety of services in Psychological Counseling and school psychology. The student is provided the opportunity to work in a practice scenario with a diversity of situations or clients, a variety of problems, and different types of programs and human services, using different psychological interventions. Grade: P/NP.

(Fee equivalent to 6 credits)

PSYC 8991 DISSERTATION A

Application of the steps in scientific research for the preparation of the doctoral proposal, under the supervision of a faculty member. The student will work on the research proposal with the counseling of a doctoral dissertation committee. Grade: P/NP.

(Fee equivalent to 3 credits)

PSYC 8992 DISSERTATION B - CONTINUATION OF DISSERTATION

The student will continue working on the research under the supervision of the doctoral dissertation committee. Grade: P/NP.

(Fee equivalent to 3 credits)

Courses in Quality Organizational Design (QODS)

QODS 5010 STRATEGIC MANAGEMENT: INNOVATION AND CHANGE

Tools of quality management and its philosophies. Necessary. re-engineering to achieve quality in products and services. Short and long-term success management, strategic framework for problem solving. Study and analysis of organizational changes to achieve innovation and competitiveness. Emphasis on the role of the organizational leader to bring about innovation and change.

3 credits

QODS 6020 ACCOUNTING AS A TOOL FOR EXECUTIVE ACTION

Study of managerial decisions through the techniques of planning and control. Analysis of profit planning, responsibility accounting, patterns of cost behavior and the application of accounting data for basic planning and control decisions.

3 credits

QODS 6035 MARKETING INFORMATION AND COMPETITIVE ADVANTAGE

Analysis of marketing and consumer data. Use and analysis of these for developing competitive market strategies.

3 credits

Courses in Risk Management in Health Care (RMHC)

RMHC 5000 RISK MANAGEMENT IN HEALTH CARE

Study of the concepts and methodology of risk management in health care. Emphasis on the design and supervision of a risk management program.

2 credits

RMHC 5010 RISK QUALITY AND MANAGEMENT IN HEALTH CARE

Study of the concepts of quality process in health care services and their relation with risk management to promote a quality culture. Emphasis on the application of quality tools and techniques applicable to risk analysis.

3 credits

RMHC 5020 UNCERTAINTY AND RISK IN THE HEALTH CARE INDUSTRY

Study and development of a risk management and financing plan in different scenarios of the health care industry. Analysis of cases of commercial risk management applications.

3 credits

RMHC 5030 PATIENT SECURITY AND RISK HANDLING

Study of theories, methods and tools used to analyze medical errors and their influence in the of patient security movement and their optimization within the organizational culture. Emphasis on the risk manager role and the ethical approach to common conflicts. Discussion of adverse events in medicine handling, surgical procedures, medicine and critical care, and in emergencies psychiatry, pediatrics and in the neonatology unit as areas representing common risks.

4 credits

RMHC 5040 LEGAL ASPECTS OF RISK MANAGEMENT IN HEALTH CARE

Study of the various laws and regulations that apply to the health care industry in Puerto Rico and the United States, as well as other legal aspects related to the functions of a risk manager.

4 credits

Courses in Social Work (SOWO)

SOWO 5011 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT I

Theories of human behavior in the environment, in social contexts, in organizations and in the community are integrated. The concept of oppression and how this is fomented through social structures, in ideologies, in language and in power relationships is examined.

3 credits

SOWO 5012 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT II

The theories of human behavior in the person's social, group and family environment. Critical analysis of developmental theories, of the concepts of diversity and of oppression as well as of intervention with a strengths and empowerment approach. Prerequisite: SOWO 5011.

3 credits

SOWO 5013 FUNDAMENTALS OF PROFESSIONAL PRACTICE I

Critical analysis of the historical development of the profession in Puerto Rico and the United States and its relation to the factors that influenced the development of the profession. General practitioner's social intervention process and focus on strengths. Review of cultural diversity and historically destitute and oppressed groups. Documentation of the general practice process in social work.

3 credits

SOWO 5014 FUNDAMENTALS OF PROFESSIONAL PRACTICE II

Study of the practical and theoretical aspects necessary to begin working with groups, communities and organizations from a general practitioner's perspective. Analysis of the organizational context and its relation to the practice of social work. Basic deliberating, planning, intervention and evaluation skills used in the process of working with groups, communities and organizations with an emphasis on oppressed and marginalized groups. Prerequisites: SOWO 5013.

3 credits

SOWO 5015 SOCIAL POLICY AND SOCIAL WELFARE SYSTEMS

General vision of the historical development of the social welfare system in Europe, the United States and Puerto Rico. Critical examination of the social welfare policies and programs in the United States and how they impact Puerto Rico. Analysis of the social policy, programs and services and their impact on destitute and oppressed groups. Study of state intervention in the formulation of social policy and development of the social welfare system and social change.

3 credits

SOWO 5016 RESEARCH IN SOCIAL WORK

Key concepts, terminology and phases of research such as identifying problems, hypotheses, instruments, samples, methods and design. Critical analysis of the innovative methodologies in social work research. The researcher's ethical dilemmas and practices that impact historically oppressed and marginalized groups.

3 credits

SOWO 5913 PRACTICUM I

Application of knowledge and skills of the intervention process, general overview of social and administrative processes and focus on strengths and empowerment. Intervention skills using the problem solution process. Emphasis on direct service to individuals and families and indirect services when related to administrative processes. 200 hours. Grade: P/NP.

2 credits

SOWO 5914 PRACTICUM II

Emphasis on intervention with different systems such as: groups, communities and organizations in a professional work context. Carrying out different roles with diverse groups with multiple problems. Direct services as well as indirect services when dealing with administrative processes. 200 hours. Prerequisite: SOWO 5913. Grade: P/NP.

2 credits

SOWO 6029 DIVERSITY AND OPPRESSION

Study of theoretical frames for the analysis of social, political, cultural and economical forces that generate and maintain oppression on different groups in Puerto Rico. Emphasis on the study of different migratory populations, homosexuals, women, elderly people, and people with economic disadvantages, and groups discriminated for reasons of ethnicity among others. Use of perspectives of empowerment and strengths as alternate reference frames for the advanced practice of social work.

3 credits

SOWO 6031 STRENGTH PERSPECTIVES IN FAMILY INTERVENTION

Intervention methods with families from the focus on strengths to facilitate empowerment. Prerequisite: SOWO 6029.

3 credits

SOWO 6032 WORKING IN GROUPS WITH FAMILIES

The process of study groups as a medium for facilitating the strengthening of family with emphasis on risk families and vulnerable groups. Analysis of the importance relating the family with other community groups to facilitate the empowerment process with the purpose of achieving social change. Prerequisite: SOWO 6031.

3 credits

SOWO 6033 EVALUATION OF PROFESSIONAL PRACTICE

Use of qualitative and quantitative methods for evaluating professional practice. Critical analysis of both methodologies and their contribution to the field of social work. Prerequisites: SOWO 5016, 6029.

3 credits

SOWO 6034 FAMILY INTERVENTION MODELS

Intervention models which facilitate the empowerment process with different types of families, recognizing their cultural diversity, gender, social class, age, sexual orientation and ethnic origins. Prerequisites: SOWO 6032, 6033.

3 credits

SOWO 6035 COMMUNITY, FAMILIES AND SOCIAL CHANGE

The modalities of community social work and the community work process as a means of relating families with community resources that meet their needs. Emphasis on work with families that historically have been destitute and oppressed with the purpose of fomenting a better quality of life for them. Prerequisites: SOWO 6032, 6033.

3 credits

SOWO 6036 PROGRAM PLANNING AND EVALUATION

Review of the program planning process in human service organizations. General overview of the planning, methods and evaluation terminology and techniques to determine the impact of family programs. Critical analysis of the use of an evaluation to broaden and obstruct social justice and self-determination in historically destitute and oppressed groups. Critical analysis of the ethics in evaluating programs. Prerequisite: SOWO 6033.

3 credits

SOWO 6037 ADMINISTRATION IN SOCIAL WORK

Critical study of principles and processes in the administration of human service agencies. Administration is studied as a method of social work from the conceptual and practical perspective. Analysis of the organizational theory and different ethical orientations and the conflicts in administrating human services and the diverse roles held by the

social work administrator. Emphasis on the administrative incidentals and empowerment of agency clientele and personnel. Prerequisite: SOWO 6029.

3 credits

SOWO 6038 HUMAN RESOURCES MANAGEMENT AND DEVELOPMENT IN SOCIAL AGENCIES

Review of the duties of a social worker as a personnel manager in the context of the social agency profession. Analysis of the principles and techniques in the selection, training, supervision and evaluation of social agency personnel. Review of federal and state legislation, trends and matters such as: cultural diversity, Participating management, incidentals and empowerment of the clientele and personnel in these types of agencies. Prerequisite: SOWO 6037.

3 credits

SOWO 6039 PROPOSALS FORMULATION

Review of the processes and dilemmas related to the formulation and presentation of proposals. Analysis of the nature and sources of financing. Includes the formulation of the proposal, follow-up and authorization. Requires the preparation of a proposal. Prerequisite: SOWO 6038.

3 credits

SOWO 6043 ADMINISTRATION OF NON-TRADITIONAL AGENCIES

Organization, development and inherent dilemmas in non-traditional agencies from an administrative perspective. Analysis of objectives, structures, government, personnel patterns and leadership characteristics necessary to manage these agencies. Study of concepts such as: diversity, shared power, participation in decision making. Empowerment and social change. Prerequisite: SOWO 6039.

3 credits

SOWO 6044 SOCIAL WORK AND WOMEN

Analysis of the situation of women in Puerto Rico and the theoretical foci which explain their reality. Study of the organizations, programs and services existing in Puerto Rico for this group.

3 credits

SOWO 6045 SOCIAL WORK AND THE ELDERLY

Review of the biopsychosocial factors in elderly people. Theoretical approximations that explain the relationship between the elderly and their families. Analysis of controversies related to this group and examination of ethical dilemmas.

3 credits

SOWO 6046 IDENTIFICATION AND USE OF COMMUNITY RESOURCES

Programs, rules and procedures pertaining to public and private agencies that offer human services to the Puerto Rican community. Intervention skills oriented towards individual, family and group empowerment in dealing effectively with the community resource barriers, proposals for changes in agencies providing services and development of community resources in the community.

3 credits

SOWO 6047 SOCIAL WORK AND HUMAN SEXUALITY

Discussion of various topics in the area of human sexuality, such as: historical development of sexuality, social construction of sexuality, discussion on sex, gender and sexuality, sexuality orientation, sexuality in the human life cycle. Emphasis on intervention skills.

3 credits

SOWO 6048 ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS) IN THE WORK ENVIRONMENT

Analysis of the HIV/AIDS endemia and what it implies for an administrator. Review of the dilemmas and controversies related to AIDS at the work place. Legal aspects such as: discrimination at the work place, mandatory HIV testing, notification of results, the right to confidentiality and the patient rights in relation to public protection.

3 credits

SOWO 6049 MANAGERIAL INFORMATION SYSTEM IN SOCIAL WORK

General overview of the use of computers in social work administration. Planning and designing a system of managerial information in human services organizations. The impact that the technology of information has had on social work. Emphasis on ethical dilemmas concerning the use of a client's information. Application of commercial programs. Requires 30 hours of lecture and 15 hours of lab.

3 credits

SOWO 6053 ADVANCED TECHNIQUES IN PREVENTION AND INTERVENTION WITH FAMILIES WITH SPECIAL NEEDS

Study of families with special needs including their different structures, ethnicity, race, social class and social cultural factors. Special attention to intervention and prevention related to vulnerable families and the resources for achieving change by using the perspectives of strengths and empowerment.

3 credits

SOWO 6054 SOCIAL WORK AND EMPLOYEE AID PROGRAMS

Examination from an administrative perspective of the development, function, and services that the Employee Assistance Programs render. Considers also are the controversies and dilemmas inherent to these. Analysis of the interrelation between occupational social work and the programs of employee assistance. The different models used for rendering services and their adaptation to public and private work scenarios. Analysis of institutional policies and policies on integration between management, labor unions, employees, and their families.

3 credits

SOWO 6055 SOCIAL WORK AND HIV/AIDS

Analysis of the AIDS/HIV endemia. Biosocial aspects related to the condition. Intervention skills in using the help process with infected people and people affected by the virus. Review of prevention strategies. Dilemmas and controversies related to the condition.

3 credits

SOWO 6056 INTERVENTION WITH FAMILIES AND PATIENTS WITH TERMINAL ILLNESSES

The most common terminal illnesses in Puerto Rico and their psychological and socioeconomic implications. Emphasis on the intervention process with families within the context of their strengths and their support networks. Social intervention strategies and techniques for dealing with physical and mental handicaps and death.

3 credits

SOWO 6911 PRACTICUM III: DIRECT SERVICE

Practical experiences aimed to integrate knowledge and skills in family intervention in an organizational context, consistent with the principles and values of the social work profession, from an ecosystemic perspective of strengths and empowerment in families, and emphasis on prevention and social change. Within the practice scenario context, the social and institutional policy, family needs, and the institutional and community resources are considered in relation to the diversity, social and economic justice, cultural competence, knowledge of social research, and the social reality of the families, for intervention with individuals and families. Requires a minimum of 167 hours per trimester. Prerequisite: SOWO 5914 or be admitted in the advanced program. Grade: P/NP.

2 credits

SOWO 6912 PRACTICUM IV: DIRECT SERVICE

Practical experiences for the integration of knowledge and skills in family intervention, at an advanced level, considering the family and couples therapy modalities. The different models of structural therapy, communication and solution of problems in agreement with diversity, social and economic justice, and cultural competence in families are considered. The course integrates practice evaluation and the analysis of the social and institutional policies for the implementation of these intervention modalities. Requires a minimum of 167 hours per trimester. Prerequisite: SOWO 6911. Grade: P/NP.

2 credits

SOWO 6913 PRACTICUM V: DIRECT SERVICE

Practical experiences with family groups and other modalities of family intervention that allow the integration of theoretical knowledge and development of skills consistent with the purposes, principles and fundamental values of social work in the advanced level practice. Emphasis on strategies at the group level that reflect a commitment with the cultural competency, diversity, social justice and excluded and oppressed groups. In addition, the use of strategies that integrate research as an evaluation tool for the practice will be promoted. The differential use of intervention models with diverse groups of families in harmony with the empowerment and strengths perspectives is promoted. Requires a minimum of 167 hours per trimester. Prerequisite: SOWO 6912. Grade: P/NP.

2 credits

SOWO 6914 PRACTICUM III: ADMINISTRATION IN SOCIAL WORK

Practical experiences directed to provide students the opportunity to integrate theoretical knowledge to the analysis and administration of a social services organization. Expands the development of skills consistent with the purpose, values, and ethics of social work administration. Involvement in the analysis of philosophy, social policies and the organizational culture of the agency with an approach towards the empowerment and strengths of the organization's components. Requires a minimum of 167 hours per trimester. Prerequisite SOWO 5914 or be admitted in the advanced program. Grade: P/NP.

2 credits

SOWO 6915 PRACTICUM IV: ADMINISTRATION IN SOCIAL WORK

Application of knowledge and skills relative to the participating process of planning in a human service agency, the coordination processes and the application of principles of structures for the organization's offering of services from a strengths, systemic, and empowerment approach. Also includes the application of administrative practice on the agency's human resources. Requires a minimum of 167 hours per trimester. Prerequisite: SOWO 6914. Grade: P/NP.

2 credits

SOWO 6916 PRACTICUM V: ADMINISTRATION IN SOCIAL WORK

Learning experiences directed towards the integration of theoretical knowledge and skills with a systemic, strengths and empowerment approach in the administration of social agencies, with emphasis on the implementation of the action plan, proposal formulation, search of financial resources for the agency, and the application of models and techniques for program evaluation. Requires a minimum of 167 hours per trimester. Prerequisite: SOWO 6915. Grade: P/NP.

2 credits

SOWO 7130 CONCEPTUAL APPROACHES IN CLINICAL SOCIAL WORK

Analysis of the conceptual foundation of the three dimensions that integrate the social-clinical intervention applied to individuals, family, couples and group therapy. Integration of several conceptual models with an echo-systemic, cognitive-behavioral and problem solving approach for intervention. Includes ethical aspects of the social-clinical work. Requires a minimum of 15 hours of lab.

3 credits

SOWO 7140 COORDINATED HANDLING OF MENTAL HEALTH AND CLINICAL SOCIAL WORK

Review of the historical aspects and social policies regarding the coordinated handling of mental health services. Critical analysis of the state and federal laws regulating the independent practice of clinical social work. Identification of the strategic and operational resources in the use and planning of services: quality of service, benefits administration, claims and lawsuits. Emphasis on the critical analysis of the Revised DSM IV, its origin and evolution. Includes ethical aspects related to the use of diagnosis and drugs.

3 credits

SOWO 7150 FAMILY THERAPY IN SOCIAL WORK

Analysis of social work intervention in family therapy in Puerto Rico. Discussion of clinical models of intervention in social work beginning with contemporary family therapy approaches which contemplate the complexities families confront. Application of the therapeutic process and the social work function in family therapy. Critical

examination of the conditions of oppression, discrimination and the lack of opportunities that families face and which condition their family function. Emphasis on the importance of professional ethics in family therapy. Requires a minimum of 15 hours of lab. Prerequisites: SOWO 7130, 7140.

3 credits

SOWO 7153 SOCIAL WORK IN COUPLES THERAPY

Application of social work intervention with couples. Discussion of the steps in beginning to work with traditional and nontraditional couples. Analysis of the fundamental elements in the function of couples such as: diversity, decision making, problem solving, finances, values, ethics, gender, religion, race, sexual orientation and sexual conditions. Review of how these elements affect the therapeutic reasoning. Requires a minimum of 15 hours of lab. Prerequisites: SOWO 7130, 7140.

3 credits

SOWO 7154 GROUP THERAPY IN SOCIAL WORK

Application of group therapy with different theoretical frameworks to a wide range of biopsicosocial conditions in diverse populations and the role of social work in promoting behavior changes in participants. Emphasis on the cognitive-behavioral model and the strengths approach. Discussion of protocols used in social work scenarios to develop the individual transformation process, maintain cohesion, group tasks and objectives. Requires a minimum of 15 hours of lab. Prerequisites: SOWO 7130, 7140.

3 credits

SOWO 7156 PRACTICUM IN CLINICAL SOCIAL WORK

Practical experience at the post-masters level directed towards the application and integration of clinical social intervention models for individuals, families and groups. Students must complete 180 hours of work in a mental health scenario. Requires that students have approved the 12 credits of the theoretical courses, which include SOWO 7153. Corequisite: SOWO 7154.

3 credits

Courses in Spanish (SPAN)

SPAN 6140 THE TEACHING OF SPANISH AS A SECOND LANGUAGE

Common elements in the teaching of a second language; techniques used in teaching Spanish as a second language; emphasis on writing techniques.

3 credits

SPAN 6904 IMPORTANCE AND PERTINENCE OF APPLIED LINGUISTICS IN THE STUDY OF THE SPANISH LANGUAGE IN PUERTO RICO

Analysis of linguistics as an applied science that permits the study and monitoring of Spanish as a language and its current pertinence. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Spanish.

3 credits

SPAN 6905 APPLICATION OF ADVANCED GRAMMAR IN MODERN COMPOSITION

Theoretical and practical analysis of the postulates and concepts that serve as the basis for the study and development of the Spanish language. Production of oral and written speeches. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Spanish.

3 credits

SPAN 6906 CRITICAL VIEW OF PUERTO RICAN LITERATURE: 20TH CENTURY TO THE PRESENT

Critical study of the development of Puerto Rican literature through the analysis of representative works and authors of the different genres and literary movements, including the 20th century to the present. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Spanish.

3 credits

SPAN 6907 IMPORTANT FIGURES IN CONTEMPORARY SPANISH-AMERICAN LITERATURE

Study of the general background of the development of Spanish-American Literature based on the analysis of representative works and authors of the different trends and literary genres, from the 20th century XX to the present. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Spanish.

3 credits

SPAN 6908 NEW APPROACHES OF THE TEACHING OF SPANISH

Study of new models for the teaching of Spanish and their application to pedagogical practices of Spanish in Puerto Rico. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Spanish.

3 credits

SPAN 6909 STUDY AND APPLICATION OF READING AND WRITING AS TEACHING TOOLS

Study of teaching theories and techniques that apply to the planning and development of reading and writing skills. Analysis of novel approaches and resources directed to the development and practice of skills that stimulate innovation in teaching. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Spanish.

3 credits

SPAN 6910 TRAJECTORY AND EVOLUTION OF THE CONCEPT OF IDENTITY IN PUERTO RICAN POETRY OF THE 20TH CENTURY

Emphasis on the identification and examination of expressions of national affirmation arising in Puerto Rican poetry during the 20th century. Presentation of an integrated view of poetic discourse revealing a clear trend towards the search for and affirmation of a Puerto Rican national identity from different perspectives. Development of a curricular segment. Course designed for students in the Master of Education in Curriculum and Teaching of Spanish.

3 credits

Courses in Theological Studies (THEO)**THEO 7000 FUNDAMENTAL THEMES OF CHRISTIAN THEOLOGY**

Analysis of fundamental topics of Christian Theology, such as the Doctrine of God, Christology, Ecclesiology, and Eschatology. Special attention to the theological, philosophical, and pastoral contemporary dialog of these topics. Review of tendencies, thinkers, trends, and methodology, particularly from the Latin American perspective.

3 credits

THEO 7010 BIBLICAL STUDIES

Critical study of the sacred writings (Old and New Testament). Special attention to several aspects, such as the historical, social, and theological aspects that frame the books of Christian writings.

3 credits

THEO 7020 CHRISTIAN ETHICAL PERSPECTIVES

Analysis of the history, methodology, and the theological and philosophical basis of the ethical-Christian school of thought. Study of deontological, utilitarian, contextual, libertarian, and feminist discourses.

3 credits

THEO 7030 HISTORY OF CHRISTIANITY

Study of Christianity from the Apostolic Era, the Patristic Period, the Middle Ages, and the Protestant Reformation to the present. Includes theological development, its ecumenical expressions, and the geographical expansion through the different continents, especially Latin America and the Caribbean.

3 credits

THEO 7100 CONTEMPORARY THEORIES OF CHRISTIAN THEOLOGY

Study of trends, theories, practices, and challenges of Christian education in the context of Catholic Christian and Protestant communities in Latin America, the Caribbean and the United States. Emphasis on both the ecclesial as well as the academia context.

3 credits

THEO 7110 THEOLOGICAL AND PHILOSOPHICAL FOUNDATIONS OF EDUCATIONAL MINISTRY

Readings and discussions of several contemporary approaches to Christian education, such as those from Horace Bushnell, George Albert Coe, Lewis J. Sherill, James Smart, C. Ellis Nelson, Thomas Groome, and Paulo Freire. Emphasis on educational philosophies, and theories of human development relevant to Christian education.

3 credits

THEO 7120 CURRICULA AND METHODS OF POPULAR EDUCATIONAL THEOLOGY

Review of different alternative theological education curricula, programs, and strategies for popular sectors, with special emphasis on the models developed by fundamental ecclesiastical communities in Latin America and the Caribbean.

3 credits

THEO 7130 EDUCATION FOR PEACE, HOPE AND SOCIAL JUSTICE

Study of educational models of Christian Churches that foster brotherhood relations and social coexistence. Analysis of the theological, pedagogical, and social dimensions in the contemporary world context.

3 credits

THEO 7140 CHRISTIAN EDUCATION AND MORAL FORMATION

Review of the critical role that the teaching of faith and Christian values play on moral formation in its personal and community character. Study of different approaches and methodologies on spiritual and moral development in a pluralist world.

3 credits

THEO 7150 CHRISTIAN EDUCATION AND CONTEMPORARY DEBATES ON GENDER

Analysis of the impact that theological education has had on contemporary discussions about gender. Study of its connection with topics of ethnic group and social class. Emphasis of the role of this impact on the teaching-learning processes and on curriculum design in the Puerto Rican and Latin American context.

3 credits

THEO 7160 CHRISTIAN EDUCATION, MODERNISM AND POSTMODERNISM

Study of paradigms that have framed history and human life in Occident. Emphasis on the postulates and the impact of modernism, the different trends of postmodernism, and the critical Christian attitudes facing them.

3 credits

THEO 7170 CHRISTIAN ECUMENISM AND RELIGIOUS EDUCATION

Study of the biblical, theological and traditional bases of Christian Ecumenism. Examination from a historical perspective, of its presence in Puerto Rico and the rest of the world, with special emphasis on the last two decades. Evaluation of its achievements, goals, forecasts, and impact on Christian education.

3 credits

THEO 7180 SPIRITUALITY AND THE RELIGIOUS EXPERIENCE IN PUERTO RICO

Interdisciplinary analysis of the search for sanctity and spirituality in our particular context. Study of the heterogeneous character of Puerto Rican spirituality, as well as the factors that influence and legitimize it. Study of native movements, their models of spirituality and the recent development of an inclusive and socially committed ecumenical spirituality.

3 credits

THEO 7190 CLASSIC EXPONENTS OF CHRISTIAN SPIRITUALITY

Readings and critical discussions of classic texts of Christian thinkers and mystics from the Middle Ages to the XIX century. Includes works from Saint Augustine, Eckhardt, Kempis, Francis of Assisi, Catalina de Siena, Martin Luther, Thomas of Aquinas, Teresa de Avila, San Juan de la Cruz, Ignatius Loyola, Juan Wesley, Fray Luis de León, Tomás Merton, among others.

3 credits

THEO 7200 TOWARDS A PUERTO RICAN PASTORAL WORK

Evaluation of different approaches to pastoral work in the Puerto Rican context. A critical examination of the impact that the socio-cultural, political, and economical reality has on the different dimensions of pastoral work. Evaluation and reinterpretation of the sources of Christian faith facing the complexity of pastoral work in the XXI century.

3 credits

THEO 7210 PASTORAL WORK AND THE ESCHATOLOGY

A critical examination of the historical roots and trajectory of theological work as eschatology, in other words, hope that searches understanding. Evaluation, from an interdisciplinary perspective and a pastoral approach, of the Christian eschatological discourse in different historical contexts starting from the writings of the New Testament. Study of the proposal for hope and vision of the future in the theological-political discourses, in the patristic period, the Middle Ages, illustration, modernism and postmodernism with special attention to the Latin American, Caribbean, and Puerto Rican context.

3 credits

THEO 7220 NEW RELIGIOUS MOVEMENTS IN THE AMERICAS

A systematic study from the pastoral perspective of historical, sociological and spiritual aspects of new religious groups and sects in Puerto Rico and the Americas. Includes the groups of new conscience, oriental religions and those originated in Puerto Rico and Latin America.

3 credits

THEO 7230 GERONTOLOGY AND PASTORAL ACTION

Review of the ways that the elderly experiment religion and spirituality in a society that it is also getting old. From an interdisciplinary perspective, the course covers the complete life of the elderly, with emphasis on spiritual claims that are frequently molded by faith and the religious practice. Explanation of the process of getting old as part of the development of the human being and identifying the physical, social, emotional, and economical aspects of this component of the population. An examination of pastoral models and strategies, from a biblical and theological approach, to adequately address their needs.

3 credits

THEO 7240 YOUTH AND PASTORAL ACTION

An exploration of the situations that young people are facing in the Puerto Rican social context and the pastoral response to it from an interdisciplinary approach. Includes social, economical, emotional and spiritual aspects that affect young people. Evaluation of traditional responses to these problems and proposals of new responses from a biblical-theological perspective.

3 credits

THEO 7250 SPANISH-CARIBBEAN THEOLOGICAL METHODS

Critical and comparative analysis of the theological methodologies implicit in Hispano-Caribbean thinking. Study of the cultural, economic, social and political context in which Hispano-Caribbean theological methods arise.

3 credits

THEO 7260 THEOLOGY OF PASTORAL ACTION

Fundamental aspects of pastoral action and the different theological implications from the praxis perspective. Special attention to the analysis of the historical development, method and object of pastoral theology.

3 credits

THEO 7270 CHRISTOLOGY AND PASTORAL ACTION

A theological-pastoral interpretation of the life of Jesus and his relation to the Father, the kingdom, the law, the cult, and the alienated. The theological-pastoral importance of the topic Jesus for history and Christ for faith. Analysis of the temptations of Jesus, his death and resurrection. Starting from Jesus' resurrection, a presentation of the different Christologies, both neotestamentary, as well as contemporary and their implications for pastoral action.

3 credits

THEO 7280 ANTHROPOLOGY AND PASTORAL ACTION

Relation between the biblical anthropology and the presumptions of contemporary anthropology and the implications to pastoral action. Analysis of the great anthropological methods: Pantheist, Gnostic, Fundamentalist, Progressive, Buddhist, Radical, Biblical and Dialectical. Study of the topic of the openness of human beings towards that which is sacred.

3 credits

THEO 7290 ECCLESIOLOGY AND PASTORAL ACTION

Identification of biblical keys with respect to the pastoral action of Jesus, its relation and meaning for the primitive church and the apostolic dynamic. Analysis of the church and pastoral models, the concept of God's kingdom, and the concept of Church as the people of God in its prophetic and institutional dimension as theological keys. Study of the historical evolution of the concept of pastoral action.

3 credits

THEO 8000 MISSION THEOLOGY

Study of different models of mission theologies expressed throughout the history of Christian churches. Emphasis on the impact of Christian missions in the contemporary world with special emphasis on Latin America.

3 credits

THEO 8010 THEORY OF THE THEOLOGICAL METHOD

Study of the theological method as the operative basis of theology. Examination of the most distinguished theological methods in contemporary theologies, including the main elements, rules of construction, and critical basis. Identifies the different paths of Puerto Rican theology.

3 credits

THEO 8020 HUMAN SUFFERING AND THE PROBLEM OF EVIL AND LOVE

Analysis of a selection of biblical and theological perspectives that have thought about the correlation between human suffering and the problem of evil and love in the Judeo-Christian tradition. Special attention to the biblical-theological interpretations and responses offered on these topics by the Caribbean and Latin America.

3 credits

THEO 8993 DISSERTATION PROPOSAL

Writing and defense of the dissertation proposal. Students will work under the direction of their doctoral committee until the proposal is approved by the Committee. They will enroll in this course while working on the proposal for the dissertation.

3 credits

THEO 8994 DISSERTATION

Intense work on the research and preparation of the doctoral dissertation. Students will enroll in this course while working under the direction of their doctoral committee. The final grade will be P/NP.

3 credits

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